## Polychlorinated Biphenyl (PCB) **Remedial Action Report**

**Future CREC Discovery Academy** 176 Cumberland Avenue Wethersfield, CT

## **Capital Region Education Council**

Hartford, CT

May 14, 2015



Fuss & O'Neill EnviroScience, LLC 146 Hartford Road Manchester, CT 06040



May 14, 2015

Mr. Robert Saunders Senior Project Manager Capital Region Education Council 147 Charter Oak Avenue Hartford, Connecticut 06106

RE: Polychlorinated Biphenyls (PCBs) Removal at the Future CREC Discovery Academy 176 Cumberland Avenue, Wethersfield, Connecticut

Fuss & O'Neill EnviroScience Project No. 20110979.A2E

Dear Mr. Saunders:

Enclosed please find the remedial action report for the polychlorinated biphenyl (PCB) remediation completed at the future CREC Discovery Academy located at 176 Cumberland Avenue in Wethersfield, Connecticut. This report summarizes the removal of PCB-containing source materials including, caulking compounds associated with interior and exterior expansion joints, exterior windows and doors and window glazing compound. This report also addresses PCB remediation waste including previously identified soils and concrete encountered during the site work. This report has been developed to satisfy Environmental Protection Agency (EPA) requirements.

If you have any questions regarding the enclosed report, please do not hesitate to contact me at (860) 646-2469, extension 5585. Thank you for this opportunity to have served your environmental needs.

Sincerely

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Enclosure



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## 1 Introduction

Fuss & O'Neill EnviroScience, LLC (EnviroScience) was retained to provide project oversight at the future CREC Discovery Academy located at 176 Cumberland Avenue, Wethersfield, Connecticut (the Site) related to the remediation of polychlorinated biphenyls (PCBs).

This report has been prepared in accordance with the United States Environmental Protection Agency (EPA) approved Self Implementing On-Site Clean-up and Disposal Plan (SIDP) and with the requirements of Condition 19 of the approval granted by the EPA for cleanup of PCB-containing and PCB-contaminated materials pursuant to Title 40, Code of Federal Regulations (CFR) 761.61 (a) and 761.79 (h), dated November 13, 2012 and revised on February 22, 2013 and March 7, 2013. This report presents data supporting the attainment of the remedial objectives pertaining to the PCB-containing and PCB-contaminated materials at the Site.

This remediation project involved the removal of PCB-containing caulking compounds associated with interior and exterior expansion joints and exterior window and door units as well as window glazing compounds. In addition, PCB-contaminated soils and concrete were remediated. All work was conducted to satisfy the EPA requirements.

The SIDP, also referred to as the Notification, was prepared by EnviroScience. A copy of the Notification is provided in *Appendix A*. The General Contractor was Downes Construction Company of New Britain, Connecticut. The PCB Remediation Contractor was Wiese Construction, Inc. of Norwich, Connecticut.

#### 1.1 Remedial Action

PCB remediation was performed to facilitate the total renovation (gut) of the north building and demolition of the south building and the building connectors between the structures.

#### Initial SIDP scope:

Identified PCB-containing building materials were removed as PCB Bulk Product Waste, which included the following:

- Exterior window/door caulking compound (garage and main building)
- Interior expansion/wall joint caulking compound (garage building)
- Interior floor joint caulking compound (garage building)
- Exterior pink building caulking compound (main building)
- Exterior window/door caulking compound (south building)



Adjacent substrates associated with the above-identified materials were removed during the PCB source removal as PCB Bulk Product Waste, which includes:

- Exterior porous brick veneer-1 whole course of brick from all window/door masonry joints in contact with PCB containing caulking compound in a straight vertically cut line from foundation to Steel Lintel at all vertical window jambs (approximately 8 inches).
- Interior porous block/concrete –½ –course of block/concrete at all joints identified in contact with PCB containing caulking compound in a straight vertically cut line (approximately 8 inches).
- Interior-Six inches of concrete associated with floor joint caulking compound from each side of the joint.
- Exterior structural steel lintels were cleaned of PCB caulking compound with paint removed from the structural component.

Adjacent soil locations in Areas 4, 5, 6, Area 10, and Area 15 were removed and disposed of as PCB Remediation Waste greater than (>) 1 milligram per kilogram (mg/kg) but less than (<) 50 mg/kg. The SIDP specified for soil removal to a depth of 4 inches below grade surface up to four feet from the perimeter of the building in the Areas.

#### **SIDP** modification scope:

PCB-contaminated concrete and soil were encountered during the project as a result of historical site operations and former transformer vault as discussed below. EnviroScience issued modification memorandums to EPA for approval to properly dispose of the materials as PCB Remediation Waste. The memorandums are included in *Appendix A* and the remediation activities and post remediation sampling results are included in this report. The following items were addressed as part of the approved SIDP modification memorandums:

#### **Concrete**

- Removal of 150 square feet (SF) of concrete slab associated with the former hazardous waste storage area (HWSA).
- Removal of 200 SF of concrete pad associated with former transformer vault.
- Removal of 8,840 SF of concrete slab associated with former maintenance garage area (original slab encountered under newer slab).

#### Soil

Removal of 845 tons of PCB contaminated soil within the former maintenance garage area
footprint due to the demolition of the PCB contaminated concrete slab resulting in soil
contamination. Please note that the HWSA was part of the maintenance garage area and was
included in the overall site excavations.

## 1.2 Regulatory Framework

The completed remediation activity was proposed as a voluntary action to address the work identified in the previous section.



### 1.2.1 EPA

The EPA was the lead agency contact for the review of information regarding the investigation and remediation of PCBs at the Site. Remediation was to be conducted in a manner consistent with the Toxic Substances Control Act (TSCA) and more specifically, the provisions of 40 CFR 761 – *Polychlorinated Biphenyls Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions.* Pertinent documents issued by the EPA are provided along with the main contact information.

PCB Cleanup and Disposal Approval pursuant to 40 CFR 761.61 (a) and 761.79 (h) was provided on March 27, 2013 in response to the SIDP originally submitted on November 13, 2012 and revised on February 22, 2013 and March 7, 2013

A modification memorandum was submitted by EnviroScience on March 12, 2014 and revised on June 24, 2014 with approval on July 8, 2014 by EPA.

A copy of the PCB Cleanup and Disposal Approval is provided in Appendix B.

The key contact for the above was:

Ms. Kimberly Tisa
PCB Coordinator
U.S. Environmental Protection Agency
Region 1
5 Post Office Square, Suite 100
Mail Code: OSRR07-2

Boston, MA 02109-3912 Telephone: (617) 918-1527 Facsimile: (617) 918-0527

EPA regulations and guidance documents were used for the investigation and remediation of PCBs from the Site.

## 2 Background

This section provides a description of the Site and includes information on the Building Material Characterization Activities at the Site.

## 2.1 Building Description

The north building was constructed in 1954 with a southerly addition constructed approximately ten years later. The buildings were constructed for Connecticut Light and Power (CL&P) Corporate Headquarters.



The work scope to prepare the Site for the future CREC Discovery Academy included gutting the north building to the exterior structure. In addition the building connector and the south building were fully demolished.

## 2.2 Building Material Characterization Activities

The original source material sampling was conducted on January 23, 2012 and February 3, 2012 by EnviroScience. Supplemental adjacent surface and soil samples were conducted on March 5, 2012 as part of the SIDP submittal by EnviroScience.

Additional information regarding caulking and glazing compounds and adjacent surface characterization sampling can be found in the SIDP attached as *Appendix A*.

Sampling associated with the modifications to the SIDP was conducted on August 9, 2013, November 15, 2013 for concrete and various dates from June-September 2014 for soil by EnviroScience. Additional information regarding sampling can be found in *Appendix A* as part of the EPA modification memorandums.

## 3 Remediation Activities

This section contains a description of the remediation activities completed at the Site including: (1) Preremediation Activities, (2) Remediation Activities, and (3) Post-Remediation Verification Sampling.

#### 3.1 Pre-Remediation Activities

The pre-remediation activities associated with this project are presented in this section.

## 3.1.1 EPA Approval and Approval Conditions

Prior to initiation of the remediation activities at the Site, it was necessary to obtain the approval of the regulatory agency maintaining jurisdiction over the work and as well as meet certain approval conditions. The agency maintaining jurisdiction over the work was the EPA.

## 3.1.2 EPA Correspondence

The EPA required the submission of a SIDP to review for compliance with the provisions of 40 CFR 761.61 – *Polychlorinated Biphenyls Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions.* The SIDP was initially prepared and submitted to the EPA on November 13, 2012 and revised on February 22, 2013 and March 7, 2013. The notification included a presentation of the Site characterization data, a statement of the remedial action objectives, a description of the Site preparations and controls, a description of the Site remedial action procedures, and a description of the Site verification plan for remedial action procedures.



Modification memorandums were submitted on March 12, 2014 and revised on June 24, 2014 with approval on July 8, 2014 by the EPA. The memorandums address concrete and soil removal as PCB Remediation Waste in multiple areas of concern including a former HWSA, transformer vault and maintenance garage.

Per Condition 10 of the *PCB Cleanup and Disposal Approval*, Capital Region Education Council (CREC) was required to provide written notification of its acceptance of the conditions delineated in the approval to the EPA. A copy of the acceptance was submitted to the EPA as required and is provided in *Appendix C, Item 1*.

Per Condition 11a of the *PCB Cleanup and Disposal Approval*, the abatement/demolition contractor was required to provide written notification of its understanding and acceptance of the Notification, and that the abatement/demolition contractor agreed to abide by the conditions of the approval. A copy of the acceptance was submitted to the EPA as required and is provided in *Appendix C*, *Item 2*.

Per Condition 11b of the *PCB Cleanup and Disposal Approval*, the Remediation Contractor was required to submit a work plan detailing the procedures that would be employed for removal of PCB-containing and PCB-contaminated waste and for containment and air monitoring during removal activities. Additionally, this work plan was to include information on waste storage, handling, and disposal for each waste stream type and for equipment decontamination. A copy of the work plan was submitted to the EPA as required and is provided in *Appendix C, Item 3*.

Per Condition 11c of the PCB Cleanup and Disposal Approval, the analytical laboratories, Phoenix Environmental Laboratories, Inc. of Manchester, CT, and Con-Test Analytical Laboratory of East Longmeadow, MA were required to provide written notification of their understanding and acceptance of the extraction, analytical methods and quality assurance requirements specified in the Notification and conditions of the approval. Copies of the laboratories' acceptances were submitted to the EPA as required and are provided in *Appendix C, Item 4*.

#### 3.2 Remediation Activities

The remediation activities associated with this project are presented in two categories: (1) PCB Bulk Product Waste and (2) PCB Remediation Waste.

#### 3.2.1 PCB Bulk Product Waste

PCB Bulk Product Waste included caulking compounds associated with interior and exterior expansion joints and exterior window and door units as well as window glazing compound from specified locations for proper disposal. Materials were removed in a manner that did not break down the materials into fine dust or powder to the extent feasible. Both mechanical equipment and hand tools were used to remove materials from and with adjacent substrates. The mechanical removal tools were fitted with high efficiency particulate air (HEPA) dust collection systems. Dry or brittle compounds and associated dust and/or debris were removed utilizing HEPA vacuums. Removed materials were placed in lined containers marked according to 40 CFR 761.40 and formatted according to 40 CFR 761.45. The materials were stored for disposal in accordance with 40 CFR 761.65.

The sequence of removal followed the general requirements:



- PCB caulking compounds associated with interior and exterior wall expansion joints and
  exterior window and door units were removed along with approximately 8 inches of brick and
  properly containerized for disposal as PCB Bulk Product Waste (≥ 50 mg/kg PCBs) by the
  Contractor.
- 2. PCB caulking compound associated with an interior floor joint was removed along with 6 inches of concrete from each side of the joint and properly containerized for disposal as PCB Bulk Product Waste (≥ 50 mg/kg PCBs) by the Contractor.
- 3. Surfaces from which removal was performed were cleaned with a solvent-based cleaner and all surfaces were HEPA vacuumed by the Contractor.
- 4. Post-remediation verification sampling was conducted by EnviroScience in accordance with the approach from Sub-part O for porous materials.

#### 3.2.2 PCB Remediation Waste

#### Concrete

PCB contaminated concrete was encountered during Site work and was addressed for removal as PCB Remediation Waste as part of a SIDP modification with EPA. The work included:

- The removal of a 150 SF concrete slab associated with the former hazardous waste storage area (HWSA). Based on weight tickets received from the Contractor, a total of 89.84 tons of concrete was removed and disposed of as PCB Remediation Waste.
- The removal of a 200 SF concrete pad associated with former transformer vault. Based on
  weight tickets received from the contractor, a total of 9 tons of concrete was removed and
  disposed of as PCB Remediation Waste.
- The removal of an 8,840 SF concrete slab associated with former maintenance garage area (original slab encountered under newer slab). Please note that the slab also consisted of an asbestos-containing moisture barrier, therefore the concrete was disposed of as a combined waste. Based on weight tickets received from the Contractor, a total of 277.01 tons of concrete was removed and disposed of as a combined waste (PCB and Asbestos).

#### **Soil**

PCB contaminated soils were identified for removal in Areas 4, 5, 6, Area 10, and Area 15 as PCB Remediation Waste in the SIDP. Based on weight tickets received from the contractor, a total of 179.73 tons was removed and disposed of as PCB Remediation Waste.

PCB contaminated soils were encountered during the removal of PCB contaminated concrete associated with the former maintenance garage slab and were addressed for removal as PCB Remediation Waste as part of a SIDP modification with EPA. Based on weight tickets received from the contractor, a total of 844.59 tons was removed and disposed of as PCB Remediation Waste.



# 3.3 Post-Remediation Verification Sampling-SIDP

### 3.3.1 Bulk Verification Sampling

Verification sampling of porous masonry components were performed in accordance with 40 CFR 761.61 Sub-part O. Samples were collected approximately every 1.5 meters in a linear fashion along exterior concrete block and brick associated with window and door caulking compound and concrete floor associated with interior floor joint caulking compound in lieu of a grid pattern. Results were compared to the high occupancy standard for porous and non-porous surfaces of ≤ 1 mg/kg using the extraction method 3540C and analysis method SW846 8082.

Bulk verification sampling results are summarized in Table 1 below. Sample data that is in bold reflects sample results that exceed 1 mg/kg. Resampling data has been provided directly below samples that exceed the 1 mg/kg. Reporting levels were observed below 1.0 mg/kg for all samples. Reporting limits have been provided for samples with reportable PCB concentrations for reference.

Table 1 - Bulk Verification Sample Results

Sample ID	Sample Location	Material Description	Result (mg/kg)
100313-SV-CSE-01	Garage- South East, Wall Joint	Block	ND<0.4
100313-SV-CSE-02	Garage- South East, Wall Joint	Block	ND<0.74
100313-SV-IN-01	Garage Wall- Interior North Wall Joint	Block	ND<0.74
100313-SV-IN-02	Garage Wall- Interior North Wall Joint	Block	ND<0.33
100313-SV-IN-03	Garage Wall- Interior North Wall Joint	Block	0.59 RL-0.32
100313-SV-IN-04	Garage Wall- Interior North Wall Joint	Block	ND<0.44
100313-SV-IN-05	Garage Wall- Interior North Wall Joint	Block	ND<0.48
100313-SV-IS-01	Garage Wall- Interior South Wall Joint	Block	ND<0.47
100313-SV-IS-02	Garage Wall- Interior South Wall Joint	Block	ND<0.69
100313-SV-IS-03	Garage Wall- Interior South Wall Joint	Block	ND<0.48
100313-SV-IS-04	Garage Wall- Interior South Wall Joint	Block	ND<0.73
100313-SV-IS-05	Garage Wall- Interior South Wall Joint	Block	ND<0.49
100313-SV-DUP	Garage Wall- Interior South Wall Joint-Duplicate	Block	ND<0.41
101013-SV-1A	Garage- East Floor Expansion Joint	Caulk	ND<0.56
101013-SV-1B	Garage- East Floor Expansion Joint	Caulk	ND<0.6
101113-SV-B01	Garage- South Side Window	Brick	ND<0.8
101113-SV-B02	Garage- South Side Window	Brick	ND<0.46
101113-SV-B03	Garage- South Side Window	Brick	ND<0.46
101113-SV-B04	Garage- South Side Window	Brick	ND<0.78
101113-SV-B05	Garage- South Side Window	Brick	ND<0.69
101113-SV-B06	Garage- South Side Window	Brick	ND<0.59
101113-SV-B07	Garage- South Side Window	Brick	ND<0.62



Sample ID	Sample Location	Material Description	Result (mg/kg)
101113-SV-B08	Garage- South Side Window	Brick	ND<0.37
101113-SV-DUP	Garage- South Side Window-Duplicate	Brick	ND<0.64
101113-SV-B11	Garage- South Side Door	Brick	ND<0.57
101113-SV-B12	Garage- South Side Door	Brick	ND<0.59
101113-SV-B13	Garage- South Side Door	Brick	ND<0.68
101113-SV-B14	Garage- South Side Door	Brick	ND<0.7
101113-SV-B15JE	Garage- South Side, East Wall	Brick	ND<0.5
101113-SV-B16JE	Garage- South Side, East Wall	Brick	ND<0.47
101113-SV-B17JE	Garage- South Side, East Wall	Brick	ND<0.5
101113-SV-B18JW	Garage- South Side, West Wall	Brick	ND<0.61
101113-SV-B19JW	Garage- South Side, West Wall	Brick	ND<0.62
101113-SV-B20JW	Garage- South Side, West Wall	Brick	ND<0.33
101113-SV-DUP2	Garage- South Side, West Wall-Duplicate	Brick	ND<0.41
101413-SV-BW-01	Garage- North Side, Window Joint	Brick	ND<0.32
101413-SV-BW-02	Garage- North Side, Window Joint	Brick	ND<0.71
101413-SV-BW-03	Garage- North Side, Window Joint	Brick	ND<0.48
101413-SV-BW-04	Garage- North Side, Window Joint	Brick	ND<0.41
101413-SV-BW-05	Garage- North Side, Window Joint	Brick	ND<0.68
101413-SV-BW-06	Garage- North Side, Window Joint	Brick	ND<0.45
101413-SV-BW-07	Garage- North Side, Window Joint	Brick	ND<0.69
101413-SV-BW-08	Garage- North Side, Window Joint	Brick	ND<0.44
101413-SV-BW-09	Garage- North Side, Window Joint	Brick	ND<0.45
101413-SV-BW-10	Garage- North Side, Window Joint	Brick	ND<0.4
101413-SV-BW-11	Garage- North Side, Door Joint	Brick	ND<0.4
101413-SV-BW-12	Garage- North Side, Door Joint	Brick	ND<0.41
101413-SV-BW-13	Garage- North Side, Door Joint	Brick	ND<0.49
101413-SV-BW-14	Garage- North Side, Door Joint	Brick	ND<0.32
101413-SV-BW-15	Garage- North Side, Door Joint	Brick	ND<0.4
101413-SV-BW-16	Garage- North Side, Door Joint	Brick	ND<0.33
101413-SV-DUP	Garage- North Side, Door Joint-Duplicate	Brick	ND<0.54
101513-SV-W01	Garage Connector-East Side Window	Brick	ND<0.49
101513-SV-W02	Garage Connector-East Side Window	Brick	ND<0.57
101513-SV-W03	Garage Connector-East Side Window	Brick	ND<0.45
101513-SV-W04	Garage Connector-East Side Window	Brick	ND<0.33
101513-SV-W05	Garage Connector-East Side Window	Brick	ND<0.45
101513-SV-W06	Garage Connector-East Side Window	Brick	ND<0.45
101513-SV-W07	Garage Connector-East Side Window	Brick	ND<0.56
101513-SV-W08	Garage Connector-East Side Window	Brick	ND<0.33
101513-SV-D09	Garage Connector- East Side Door	Brick	ND<0.61



Sample ID	Sample Location	Material Description	Result (mg/kg)
101513-SV-D10	Garage Connector- East Side Door	Brick	ND<0.33
101513-SV-D11	Garage Connector- East Side Door	Brick	ND<0.33
101513-SV-D12	Garage Connector- Northeast Door	Brick	ND<0.49
101513-SV-D13	Garage Connector- Northeast Door	Brick	ND<0.47
101513-SV-D14	Garage Connector- Northeast Door	Brick	ND<0.39
101513-SV-D15	Garage Connector- Northeast Door	Brick	ND<0.38
101513-SV-D16	Garage Connector- Northeast Door	Brick	ND<0.38
101613-SV-WW01	Loading Area- South Side, West Wall	Brick	ND<0.33
101613-SV-WW02	Loading Area- South Side, West Wall	Brick	ND<0.33
101613-SV-WW03	Loading Area- South Side, West Wall	Brick	ND<0.34
101613-SV-WE04	Loading Area- South Side, East Wall	Brick	ND<0.34
101613-SV-WE05	Loading Area- South Side, East Wall	Brick	ND<0.33
101613-SV-WE06	Loading Area- South Side, East Wall	Brick	ND<0.33
101613-SV-D07	Loading Area- South Side, Door	Brick	ND<0.33
101613-SV-D08	Loading Area- South Side, Door	Brick	ND<0.34
101613-SV-D09	Loading Area- South Side, Door	Brick	ND<0.33
101613-SV-D10	Loading Area- South Side, Door	Brick	ND<0.33
101613-SV-H11	Garage- West Wall, Horizontal	Brick	ND<0.34
101613-SV-H12	Garage- West Wall, Horizontal	Brick	ND<0.33
101613-SV-H13	Garage- West Wall, Horizontal	Brick	ND<0.36
101613-SV-H14	Garage- West Wall, Horizontal	Brick	ND<0.35
101613-SV-WD15	Garage- West Wall, Door	Brick	ND<0.33
101613-SV-WD16	Garage- West Wall, Door	Brick	ND<0.33
101613-SV-WD17	Garage- West Wall, Door	Brick	ND<0.34
101613-SV-WD18	Garage- West Wall, Door	Brick	ND<0.33
101613-SV-DUP	Loading Area- South Side, West Wall-Duplicate	Brick	ND<0.35
KN10222013-01	Garage- East Side concrete floor at seam	Concrete	ND<0.34
KN10222013-02	Garage- East Side concrete floor at seam	Concrete	ND<0.33
KN10222013-03	Garage- East Side concrete floor at seam	Concrete	ND<0.33
103013-SV-B01	Cafeteria- Southeast, East Wall	Brick	ND<0.32
103013-SV-B02	Cafeteria- Southeast, East Wall	Brick	ND<0.33
103013-SV-B08	Cafeteria- Southeast, East Wall	Brick	ND<0.33
103013-SV-B09	Cafeteria- Southeast, East Wall	Brick	ND<0.34
103013-SV-B10	Cafeteria- Southeast, West Door	Brick	ND<0.33
103013-SV-B11	Cafeteria- Southeast, West Door	Brick	ND<0.33
103013-SV-B12	Cafeteria- Southeast, West Door	Brick	ND<0.32
103013-SV-B13	Cafeteria- Southeast, West Door	Brick	ND<0.33
103013-SV-B14	Cafeteria- Southeast, South Wall	Brick	ND<0.33
103013-SV-B15	Cafeteria- Southeast, South Wall	Brick	ND<0.998



Sample ID	Sample Location	Material Description	Result (mg/kg)
103013-SV-B16	Cafeteria- Southeast, South Wall	Brick	ND<0.33
103013-SV-B17	Cafeteria- Southeast, South Wall	Brick	ND<0.41
103013-SV-B18	Cafeteria- Southeast, South Wall	Brick	ND<0.98
103013-SV-B19	Cafeteria- Southeast, South Wall	Brick	ND<0.8
103013-SV-B20	Cafeteria- Southeast, South Wall	Brick	ND<0.92
103013-SV-B21	Cafeteria- Southeast, South Wall	Brick	ND<0.62
103013-SV-B22	Cafeteria- Southeast, South Wall	Brick	ND<0.74
103013-SV-B23	Cafeteria- Southeast, South Wall	Brick	ND<0.91
103013-SV-B24	Cafeteria- Southeast, South Wall	Brick	ND<0.92
103013-SV-B25	Cafeteria- Southeast, South Wall	Brick	ND<0.56
103013-SV-B26	Cafeteria- Southeast, South Wall	Brick	ND<0.61
103013-SV-B27	Cafeteria- Southeast, South Wall	Brick	ND<0.48
103013-SV-B28	Cafeteria- Southeast, South Wall	Brick	ND<0.32
103013-SV-DUP	Cafeteria- Southeast, South Wall-Duplicate	Brick	ND<0.45
103113-SV-B01	Kitchen- North Side, East Window	Brick	ND<0.38
103113-SV-B02	Kitchen- North Side, East Window	Brick	ND<0.49
103113-SV-B05	Kitchen- North Side, East Window	Brick	ND<0.44
103113-SV-B06	Kitchen- North Side, East Window	Brick	ND<0.33
103113-SV-B09	Kitchen- North Side, Center Window	Brick	ND<0.48
103113-SV-B10	Kitchen- North Side, Center Window	Brick	ND<0.99
103113-SV-B13	Kitchen- North Side, Center Window	Brick	ND<0.38
103113-SV-B14	Kitchen- North Side, Center Window	Brick	ND<0.49
103113-SV-B17	Kitchen- North Side, West Window	Brick	ND<0.6
103113-SV-B18	Kitchen- North Side, West Window	Brick	ND<0.45
103113-SV-B21	Kitchen- North Side, West Window	Brick	ND<0.41
103113-SV-B24	Kitchen- North Side, Door	Brick	ND<0.68
103113-SV-B25	Kitchen- North Side, Door	Brick	ND<0.45
103113-SV-B26	Kitchen- North Side, Door	Brick	ND<0.41
103113-SV-B27	Kitchen- North Side, Door	Brick	ND<0.62
103113-SV-B28	Kitchen- North Side, Door	Brick	ND<0.67
103113-SV-DUP	Kitchen- North Side, Door-Duplicate	Brick	ND<0.68
KN110413-01	Cafeteria- West, Door	Brick	ND<0.33
KN110413-02	Cafeteria- West, Door	Brick	ND<0.33
KN110413-03	Cafeteria- West, Door	Brick	ND<0.32
KN110413-04	Cafeteria- West, Door	Brick	ND<0.33
KN110413-05	Cafeteria- West, North Window	Brick	ND<0.36
KN110413-06	Cafeteria- West, North Window	Brick	ND<0.34
KN110413-07	Cafeteria- West, North Window	Brick	ND<0.34
KN110413-09	Cafeteria- West, North Window	Brick	ND<0.32



Sample ID	Sample Location	Material Description	Result (mg/kg)
KN110413-10	Cafeteria- West, North Window	Brick	ND<0.34
KN110413-11	Cafeteria- West, North Window	Brick	ND<0.34
KN110413-12	Cafeteria- West, South Window	Brick	ND<0.34
KN110413-13	Cafeteria- West, South Window	Brick	ND<0.33
KN110413-14	Cafeteria- West, South Window	Brick	ND<0.33
KN110413-16	Cafeteria- West, South Window	Brick	ND<0.35
KN110413-17	Cafeteria- West, South Window	Brick	ND<0.33
KN110413-18	Cafeteria- West, South Window	Brick	ND<0.34
120313-SV-01	West Wall Windows- Main Building, 1st Floor	Brick	ND<0.34
120313-SV-02	West Wall Windows- Main Building, 1st Floor	Brick	ND<0.71
120313-SV-03	West Wall Windows- Main Building, 1st Floor	Brick	ND<0.49
120313-SV-04	West Wall Windows- Main Building, 1st Floor	Brick	ND<0.4
120313-SV-05	West Wall Windows- Main Building, 1st Floor	Brick	ND<0.62
120313-SV-06	West Wall Windows- Main Building, 1st Floor	Brick	ND<0.33
120313-SV-07	West Wall Windows- Main Building, 1st Floor	Brick	ND<0.34
120313-SV-08	West Wall Windows- Main Building, 1st Floor	Brick	ND<0.34
120313-SV-09	West Wall Windows- Main Building, 1st Floor	Brick	ND<0.33
120313-SV-10	West Wall Windows- Main Building, 1st Floor	Brick	ND<0.34
120313-SV-11	West Wall Windows- Main Building, South Wall	Brick	ND<0.59
120313-SV-12	West Wall Windows- Main Building, South Wall	Brick	ND<0.5
120313-SV-13	West Wall Windows- Main Building, South Wall	Brick	ND<0.33
120313-SV-14	West Wall Windows- Main Building, South Wall	Brick	ND<0.33
120313-SV-15	West Wall Windows- Main Building, South Wall	Brick	ND<0.33
120313-SV-16	West Wall Windows- Main Building, North Wall	Brick	ND<0.74
120313-SV-17	West Wall Windows- Main Building, North Wall	Brick	ND<0.44
120313-SV-18	West Wall Windows- Main Building, North Wall	Brick	ND<0.48
120313-SV-19	West Wall Windows- Main Building, North Wall	Brick	ND<0.45
120313-SV-20	West Wall Windows- Main Building, North Wall	Brick	1.1 RL-0.61
120613-KN-20A	Resample	Brick	ND<0.43
120313-SV-21	West Wall Windows- Main Building, Horizontal	Brick	ND<0.67
120313-SV-22	West Wall Windows- Main Building, Horizontal	Brick	ND<0.4
120313-SV-23	West Wall Windows- Main Building, Horizontal	Brick	1.2 RL-0.44
120613-KN-23A	Resample	Brick	ND<0.34
120313-SV-24	West Wall Windows- Main Building, Horizontal	Brick	1.9 RL-0.55
120613-KN-24A	Resample	Brick	ND<0.43
120313-SV-25	West Wall Windows- Main Building, Horizontal	Brick	ND<0.42
120313-SV-26	West Wall Windows- Main Building, Horizontal	Brick	ND<0.55



Sample ID	Sample Location	Material Description	Result (mg/kg)
120313-SV-27	West Wall Windows- Main Building, Horizontal	Brick	ND<0.46
120313-SV-28	West Wall Windows- Main Building, Horizontal	Brick	ND<0.5
120313-SV-29	West Wall Windows- Main Building, Horizontal	Brick	ND<0.67
120313-SV-30	West Wall Windows- Main Building, Horizontal	Brick	ND<0.43
120313-SV-31	West Wall Windows- Main Building, Horizontal	Brick	ND<0.46
120313-SV-33DUP	West Wall Windows- Main Building, 1st Floor- Duplicate	Brick	ND<0.34
120313-SV-34DUP	West Wall Windows- Main Building, South Wall- Duplicate	Brick	ND<0.75
120313-SV-35DUP	West Wall Windows- Main Building, North Wall- Duplicate	Brick	ND<0.59
121313-SV-01	South Wall Windows- Main Building, West	Brick	ND<0.37
121313-SV-02	South Wall Windows- Main Building, West	Brick	ND<0.42
121313-SV-07	South Wall Windows- Main Building, West	Brick	0.88 RL-0.44
121313-SV-08	South Wall Windows- Main Building, West	Brick	0.8 RL-0.37
121313-SV-09	South Wall Windows- Main Building, West	Brick	ND<0.37
121313-SV-10	South Wall Windows- Main Building, West	Brick	ND<0.81
121313-SV-11	South Wall Windows- Main Building, West	Brick	ND<0.43
121313-SV-12	South Wall Windows- Main Building, West	Brick	ND<0.39
121313-SV-13	South Wall Windows- Main Building, West	Brick	ND<0.33
121313-SV-14	South Wall Windows- Main Building, West	Brick	ND<0.44
121313-SV-15	South Wall Windows- Main Building, West	Brick	ND<0.33
121313-SV-16	South Wall Windows- Main Building, West	Brick	ND<0.33
121313-SV-17	South Wall Windows- Main Building, West	Brick	ND<0.8
121313-SV-18	South Wall Windows- Main Building, West	Brick	ND<0.38
121313-SV-19	South Wall Windows- Main Building, West	Brick	ND<0.32
121313-SV-20	South Wall Windows- Main Building, West	Brick	ND<0.33
121313-SV-21	South Wall Windows- Main Building, West	Brick	ND<0.45
121313-SV-32	South Wall Windows- Main Building, West	Brick	ND<0.33
121313-SV-33	South Wall Windows- Main Building, West	Brick	0.34 RL-0.33
121313-SV-34	South Wall Windows- Main Building, West	Brick	ND<0.33
121313-SV-35	South Wall Windows- Main Building, West	Brick	0.39 RL-0.33
121313-SV-36	South Wall Windows- Main Building, West	Brick	0.54 RL-0.35
121313-SV-37	South Wall Windows- Main Building, West	Brick	0.6 RL-0.4
121313-SV-38	South Wall Windows- Main Building, West	Brick	ND<0.3
121313-SV-39	South Wall Windows- Main Building, West	Brick	ND<0.33
121313-SV-40	South Wall Windows- Main Building, West	Brick	ND<0.52



Sample ID	Sample Location	Material Description	Result (mg/kg)
121313-SV-DUP1	South Wall Windows- Main Building, West-Duplicate	Brick	ND<0.42
121713-SV-01	North Wall Windows- West Side, East Vertical	Brick	ND<0.94
121713-SV-02	North Wall Windows- West Side, East Vertical	Brick	ND<0.62
121713-SV-03	North Wall Windows- West Side, East Vertical	Brick	ND<0.79
121713-SV-04	North Wall Windows- West Side, East Vertical	Brick	ND<0.57
121713-SV-05	North Wall Windows- West Side, East Vertical	Brick	ND<0.6
121713-SV-21	North Wall Windows- West Side, West Vertical	Brick	ND<0.88
121713-SV-22	North Wall Windows- West Side, West Vertical	Brick	ND<0.41
121713-SV-23	North Wall Windows- West Side, West Vertical	Brick	ND<0.79
121713-SV-24	North Wall Windows- West Side, West Vertical	Brick	ND<0.92
121713-SV-25	North Wall Windows- West Side, West Vertical	Brick	ND<0.74
122713-KN-01	North Wall Windows- East Side, East Vertical	Brick	ND<0.39
122713-KN-02	North Wall Windows- East Side, East Vertical	Brick	ND<0.44
122713-KN-03	North Wall Windows- East Side, East Vertical	Brick	ND<0.45
122713-KN-04	North Wall Windows- East Side, East Vertical	Brick	ND<0.47
122713-KN-05	North Wall Windows- East Side, East Vertical	Brick	ND<0.93
122713-KN-05DUP	North Wall Windows- East Side, East Vertical- Duplicate	Brick	ND<0.37
122713-KN-06	North Wall Windows- East Side, East Vertical	Brick	ND<0.5
122713-KN-07	North Wall Windows- East Side, East Vertical	Brick	ND<0.65
122713-KN-08	North Wall Windows- East Side, East Vertical	Brick	ND<1
122713-KN-09	North Wall Windows- East Side, East Vertical	Brick	ND<0.98
122713-KN-30	North Wall Windows- East Side, West Vertical	Brick	ND<0.86
122713-KN-31	North Wall Windows- East Side, West Vertical	Brick	ND<0.89
122713-KN-32	North Wall Windows- East Side, West Vertical	Brick	ND<0.58
122713-KN-33	North Wall Windows- East Side, West Vertical	Brick	ND<0.66
122713-KN-34	North Wall Windows- East Side, West Vertical	Brick	ND<0.61
122713-KN-34DUP	North Wall Windows- East Side, West Vertical- Duplicate	Brick	ND<0.7
122713-KN-35	North Wall Windows- East Side, West Vertical	Brick	ND<0.89
122713-KN-36	North Wall Windows- East Side, West Vertical	Brick	ND<0.69
122713-KN-37	North Wall Windows- East Side, West Vertical	Brick	ND<0.93
122713-KN-38	North Wall Windows- East Side, West Vertical	Brick	ND<0.55
011514-SV-01	East Wall Windows- Main Building, South Vertical	Brick	ND<0.35
011514-SV-02	East Wall Windows- Main Building, South Vertical	Brick	ND<0.36
011514-SV-03	East Wall Windows- Main Building, South Vertical	Brick	ND<0.35
011514-SV-04	East Wall Windows- Main Building, South Vertical	Brick	ND<0.35
011514-SV-05	East Wall Windows- Main Building, South Vertical	Brick	ND<0.35
011514-SV-06	East Wall Windows- Main Building, South Vertical	Brick	ND<0.35
011514-SV-07	East Wall Windows- Main Building, South Vertical	Brick	ND<0.33



Sample ID	Sample Location	Material Description	Result (mg/kg)
011514-SV-08	East Wall Windows- Main Building, South Vertical	Brick	ND<0.34
011514-SV-09	East Wall Windows - Main Building, North Vertical	Brick	ND<0.33
011514-SV-10	East Wall Windows Main Building, North Vertical	Brick	ND<0.33
011514-SV-11	East Wall Windows Main Building, North Vertical	Brick	ND<0.34
011514-SV-12	East Wall Windows- Main Building, North Vertical	Brick	ND<0.35
011514-SV-13	East Wall Windows- Main Building, North Vertical	Brick	ND<0.34
011514-SV-14	East Wall Windows- Main Building, North Vertical	Brick	ND<0.35
011514-SV-15	East Wall Windows- Main Building, North Vertical	Brick	ND<0.35
011514-SV-16	East Wall Windows- Main Building, North Vertical	Brick	ND<0.36
011514-SV-DUP	East Wall Windows- Main Building, North Vertical- Duplicate	Brick	ND<0.36
020414-KN-01	North Stairway- Main Building, East Vertical	Brick	ND<0.51
020414-KN-02	North Stairway- Main Building, East Vertical	Brick	ND<0.5
020414-KN-03	North Stairway- Main Building, East Vertical	Brick	ND<0.52
020414-KN-04	North Stairway- Main Building, East Vertical	Brick	ND<0.5
020414-KN-05	North Stairway- Main Building, East Vertical	Brick	ND<0.62
020414-KN-06	North Stairway- Main Building, East Vertical	Brick	ND<0.51
020414-KN-07	North Stairway- Main Building, East Vertical	Brick	ND<0.74
020414-KN-08	North Stairway- Main Building, East Vertical	Brick	ND<0.58
020414-KN-09	North Stairway- Main Building, East Vertical	Brick	ND<0.68
020414-KN-10	North Stairway- Main Building, West Vertical	Brick	ND<0.58
020414-KN-11	North Stairway- Main Building, West Vertical	Brick	ND<0.88
020414-KN-12	North Stairway- Main Building, West Vertical	Brick	ND<0.57
020414-KN-17	North Stairway- Main Building, West Vertical	Brick	ND<0.5
020414-KN-18	North Stairway- Main Building, West Vertical	Brick	ND<0.71
020414-KN-18-DUP	North Stairway- Main Building, West Vertical- Duplicate	Brick	ND<0.73
020614-SV-27	South Wall Windows- Main Building, East	Brick	ND<0.75
020614-SV-28	South Wall Windows- Main Building, East	Brick	ND<0.49
020614-SV-29	South Wall Windows- Main Building, East	Brick	ND<0.49
020614-SV-30	South Wall Windows- Main Building, East	Brick	ND<0.69
020614-SV-31	South Wall Windows- Main Building, East	Brick	ND<0.71
020614-SV-32	South Wall Windows- Main Building, East	Brick	ND<0.7
020614-SV-33	South Wall Windows- Main Building, East	Brick	ND<0.7
020614-SV-34	South Wall Windows- Main Building, East	Brick	ND<0.48
020614-SV-35	South Wall Windows- Main Building, East	Brick	ND<0.48
020614-SV-DUP2	South Wall Windows- Main Building, East-Duplicate	Brick	ND<0.47
021214-SV-01	East Wall- South Building	Brick	ND<0.34
021214-SV-02	East Wall- South Building	Brick	ND<0.33
021214-SV-03	East Wall- South Building	Brick	ND<0.34



Sample ID	Sample Location	Material Description	Result (mg/kg)
021214-SV-04	East Wall- South Building	Brick	ND<0.34
021214-SV-05	East Wall- South Building	Brick	ND<0.33
021214-SV-06	East Wall- South Building	Brick	ND<0.33
021214-SV-07	East Wall- South Building	Brick	ND<0.33
021214-SV-08	East Wall- South Building	Brick	ND<0.33
021214-SV-09	East Wall- South Building	Brick	ND<0.33
021214-SV-10	East Wall- South Building	Brick	ND<0.33
021214-SV-11	East Wall- South Building	Brick	ND<0.33
021214-SV-12	East Wall- South Building	Brick	ND<0.32
022014-SV-01	South Wall- South Building, West Vertical	Brick	ND<0.33
022014-SV-02	South Wall- South Building, West Vertical	Brick	ND<0.48
022014-SV-03	South Wall- South Building, West Vertical	Brick	ND<0.48
022014-SV-04	South Wall- South Building, West Vertical	Brick	ND<0.48
022014-SV-05	South Wall- South Building, West Vertical	Brick	ND<0.5
022014-SV-06	South Wall- South Building, West Vertical	Brick	ND<0.48
022014-SV-07	South Wall- South Building, East Vertical	Brick	ND<0.96
022014-SV-08	South Wall- South Building, East Vertical	Brick	ND<0.49
022014-SV-09	South Wall- South Building, East Vertical	Brick	ND<0.47
022014-SV-10	South Wall- South Building, East Vertical	Brick	ND<0.5
022014-SV-11	South Wall- South Building, East Vertical	Brick	ND<0.33
022014-SV-12	South Wall- South Building, East Vertical	Brick	ND<0.5
022514-SV-01	West Wall- South Building, North Vertical	Brick	ND<0.33
022514-SV-02	West Wall- South Building, North Vertical	Brick	ND<0.33
022514-SV-03	West Wall- South Building, North Vertical	Brick	ND<0.33
022514-SV-04	West Wall- South Building, North Vertical	Brick	ND<0.49
022514-SV-05	West Wall- South Building, North Vertical	Brick	ND<0.5
022514-SV-06	West Wall- South Building, North Vertical	Brick	0.56 RL-0.5
022514-SV-07	West Wall- South Building, South Vertical	Brick	ND<0.46
022514-SV-08	West Wall- South Building, South Vertical	Brick	ND<0.48
022514-SV-09	West Wall- South Building, South Vertical	Brick	ND<0.34
022514-SV-10	West Wall- South Building, South Vertical	Brick	ND<0.49
022514-SV-11	West Wall- South Building, South Vertical	Brick	ND<0.33
022514-SV-12	West Wall- South Building, South Vertical	Brick	ND<0.69
022714-SV-01	North Wall- South Building, East Vertical	Brick	ND<0.49
022714-SV-02	North Wall- South Building, East Vertical	Brick	ND<0.51
022714-SV-03	North Wall- South Building, East Vertical	Brick	ND<0.34
022714-SV-04	North Wall- South Building, East Vertical	Brick	ND<0.33
022714-SV-05	North Wall- South Building, East Vertical	Brick	ND<0.5
022714-SV-06	North Wall- South Building, East Vertical	Brick	ND<0.49



Sample ID	Sample Location	Material Description	Result (mg/kg)
022714-SV-08	North Wall- South Building, Connector, East Vertical	Brick	ND<0.38
022714-SV-09	North Wall- South Building, Connector, East Vertical	Brick	ND<0.33
022714-SV-10	North Wall- South Building, Connector, West Vertical	Brick	ND<0.34
022714-SV-11	North Wall- South Building, Connector, West Vertical	Brick	ND<0.33
022714-SV-12	North Wall- South Building, Connector, West Vertical	Brick	ND<0.33
022714-SV-13	North Wall- South Building, West Vertical	Brick	ND<0.34
022714-SV-14	North Wall- South Building, West Vertical	Brick	ND<0.49
022714-SV-15	North Wall- South Building, West Vertical	Brick	ND<0.33
022714-SV-16	North Wall- South Building, West Vertical	Brick	ND<0.33
022714-SV-17	North Wall- South Building, West Vertical	Brick	ND<0.34
022714-SV-18	North Wall- South Building, West Vertical	Brick	ND<0.5
022714-SV-DUP	North Wall- South Building, East Vertical-Duplicate	Brick	ND<0.33

ND = None Detected; RL = Reporting Limit

The analytical reports for the Bulk Verification Sampling and sampling locations are provided in *Appendix D*. Please note that the laboratory analytical report for the data referenced above includes bulk samples for a floor joint caulking material not previously sampled in the building. The results indicated the material did not contain PCBs.

## 3.3.2 Wipe Verification Sampling

#### Interior Concrete Floor Wipe Sampling-Containment Cleaning Verification

The SIDP specified after the removal of the interior concrete slab floor caulking compound (1 joint) and the interior wall expansion joint (1 joint) in the former maintenance garage area (one containment) that wipe samples be collected on the floor in the area of containment once the containment was cleaned to verify cleaning.

One wipe sample was collected within the containment and a second wipe sample collected from within 2 feet of the containment for PCB analysis. Results were compared to high occupancy standard for non-porous surfaces of  $\leq 1$  micrograms per 100 centimeters squared ( $\mu g/100 \text{ cm}^2$ ) using extraction method 3540C and analysis method SW846 8082.

The samples supported the final cleaning and the effectiveness of the containment barriers to prohibit migration of PCB from the containment area. The results of the Wipe Sampling are described in **Table 2** below.

#### **Steel lintel Wipe Samples**

Wipe verification sampling of non-porous steel lintels was performed utilizing a modified approach to 40 CFR 761.61 Sub-part P. Sampling was performed after the chemically removing paint from the surfaces. Samples were collected approximately every 1.5 meter in a linear fashion along the steel lintels



in lieu of a grid pattern. Results were compared to high occupancy standard for non-porous surfaces of  $\leq 1 \,\mu\text{g}/100\text{cm}^2$  using extraction method 3540C and analysis method SW846 8082.

The results of the Wipe Verification Sampling are described in **Table 2** below. Sample data that is in bold reflects sample results that exceeded the standard. Resampling data has been provided directly below samples that exceeded the standard. Reporting levels were observed below the standard for all samples unless noted in the table.

Table 2 - Wipe Verification Sample Results

Sample ID	Sample Location	Work Area	Material Description	Result (µg/100 cm²)	
Wipes con	Wipes conducted in and around containment to verify cleaning in area was successful				
100313-SV-WI-01	Garage Wall- Floor Wipe- Inside	Area 20	Concrete	ND<1.0	
100313-SV-WO-02	Garage Wall- Floor Wipe- Outside	Area 20	Concrete	ND<1.0	
100313-SV-Blank	Garage Wall- Floor Wipe- Blank	Area 20	Concrete	ND<1.0	
Wipes	s conducted on metal surfaces previously in	n contact with	a PCB Source		
103013-SV-W03	Cafeteria- South/East Side, South Wall	Area 15	Steel Lintel	ND<1.0	
103013-SV-W04	Cafeteria- South/East Side, South Wall	Area 15	Steel Lintel	ND<1.0	
103013-SV-W05	Cafeteria- South/East Side, South Wall	Area 15	Steel Lintel	ND<1.0	
103013-SV-W06	Cafeteria- South/East Side, South Wall	Area 15	Steel Lintel	ND<1.0	
103013-SV-W07	Cafeteria- South/East Side, South Wall	Area 15	Steel Lintel	ND<1.0	
103113-SV-W03	Kitchen- North Side, East Window	Area 18	Steel Lintel	ND<1.0	
103113-SV-W04	Kitchen- North Side, East Window	Area 18	Steel Lintel	ND<1.0	
103113-SV-W11	Kitchen- North Side, Center Window	Area 18	Steel Lintel	ND<1.0	
103113-SV-W12	Kitchen- North Side, Center Window	Area 18	Steel Lintel	ND<1.0	
103113-SV-W19	Kitchen- North Side, West Window	Area 18	Steel Lintel	ND<1.0	
103113-SV-W20	Kitchen- North Side, West Window	Area 18	Steel Lintel	ND<1.0	
KN110413-08	Cafeteria- West, North Window	Area 16	Steel Lintel	ND<1.0	
KN110413-15	Cafeteria- West, South Window	Area 16	Steel Lintel	ND<1.0	
121313-SV-03	South Wall Windows- West Side	Area 14	Steel Lintel	ND<1.0	
121313-SV-04	South Wall Windows- West Side	Area 14	Steel Lintel	2.2 RL-1.0	
033114-KN-S04	Resample	Area 6	Steel Lintel	ND<1.0	
121313-SV-05	South Wall Windows- West Side	Area 14	Steel Lintel	ND<1.0	
121313-SV-22	South Wall Windows- West Side, Top Horizontal	Area 6	Steel Lintel	6.4 RL-5.0	
033114-KN-S01A	Resample	Area 6	Steel Lintel	ND<1.0	
121313-SV-23	South Wall Windows- West Side, Top Horizontal	Area 6	Steel Lintel	4.7 RL-1.0	
033114-KN-S02A	Resample	Area 6	Steel Lintel	ND<1.0	
121313-SV-24	South Wall Windows- West Side, Top Horizontal	Area 6	Steel Lintel	9.2 RL-5.0	
033114-KN-S03A	Resample	Area 6	Steel Lintel	ND<1.0	
121313-SV-25	South Wall Windows- West Side, Top Horizontal	Area 6	Steel Lintel	3.1 RL-1.0	
033114-KN-S04A	Resample	Area 6	Steel Lintel	ND<1.0	



Sample ID	Sample Location	Work Area	Material Description	Result (µg/100 cm²)
121313-SV-26	South Wall Windows- West Side, Top Horizontal	Area 6	Steel Lintel	8.1 RL-5.0
033114-KN-S05A	Resample	Area 6	Steel Lintel	ND<1.0
121313-SV-27	South Wall Windows- West Side, Top Horizontal	Area 6	Steel Lintel	9.6 RL-5.0
033114-KN-S06A	Resample	Area 6	Steel Lintel	ND<1.0
121313-SV-28	South Wall Windows- West Side, Top Horizontal	Area 6	Steel Lintel	8.9 RL-5.0
033114-KN-S07A	Resample	Area 6	Steel Lintel	1.3 RL-1.0
041014-SV-S07B	Resample 2	Area 6	Steel Lintel	ND<1.0
121313-SV-29	South Wall Windows- West Side, Top Horizontal	Area 6	Steel Lintel	14 RL-5.0
033114-KN-S08A	Resample	Area 6	Steel Lintel	ND<1.0
121313-SV-30	South Wall Windows- West Side, Top Horizontal	Area 6	Steel Lintel	14 RL-5.0
033114-KN-S09A	Resample	Area 6	Steel Lintel	2.2 RL-1.0
041014-SV-S09B	Resample 2	Area 6	Steel Lintel	1.2 RL-1.0
051214-BG-S09C	Resample 3	Area 6	Steel Lintel	ND<1.0
121313-SV-31	South Wall Windows- West Side, Top Horizontal	Area 6	Steel Lintel	16 RL-5.0
033114-KN-S10A	Resample	Area 6	Steel Lintel	ND<1.0
121313-SV-DUP2	South Wall Windows- West Side, Top Horizontal	Area 6	Steel Lintel	5.7 RL-1.0
033114-KN-SDUPA	Resample	Area 6	Steel Lintel	1.6 RL-1.0
041014-SV- S03DUPB	Resample 2	Area 6	Steel Lintel	ND<1.0
121713-SV-06	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	2.4 RL-1.0
033114-KN-W6A	Resample	Area 4	Steel Lintel	ND<1.0
121713-SV-07	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	5.8 RL-1.0
033114-KN-W7A	Resample	Area 4	Steel Lintel	ND<1.0
121713-SV-08	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	6.5 RL-1.0
033114-KN-W8A	Resample	Area 4	Steel Lintel	ND<1.0
121713-SV-09	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	6.6 RL-1.0
033114-KN-W9A	Resample	Area 4	Steel Lintel	ND<1.0
121713-SV-10	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	5.5 RL-1.0
033114-KN-W10A	Resample	Area 4	Steel Lintel	1.6 RL-1.0
041114-BG-NW10B	Resample 2	Area 4	Steel Lintel	1.8 RL-1.0



Sample ID	Sample Location	Work Area	Material Description	Result (µg/100 cm²)
051314-BG-W10C	Resample 3	Area 4	Steel Lintel	ND<1.0
121713-SV-11	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	5.4 RL-1.0
033114-KN-W11A	Resample 2	Area 4	Steel Lintel	2.0 RL-1.0
041114-BG-NW11B	Resample 3	Area 4	Steel Lintel	1.3 RL-1.0
051314-BG-W11C	Resample-4	Area 4	Steel Lintel	ND<1.0
121713-SV-12	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	2.7 RL-1.0
033114-KN-W12A	Resample	Area 4	Steel Lintel	3.0 RL-1.0
041114-BG-NW12B	Resample 2	Area 4	Steel Lintel	1.1 RL-1.0
041114-BG-NW12B DUP	Resample 2-Duplicate	Area 4	Steel Lintel	ND<1.0
051314-BG-W12C	Resample 3	Area 4	Steel Lintel	ND<1.0
121713-SV-13	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	7.5 RL-1.0
033114-KN-W13A	Resample	Area 4	Steel Lintel	2.9 RL-1.0
041114-BG-NW13B	Resample 2	Area 4	Steel Lintel	1.9 RL-1.0
051314-BG-W13C	Resample-3	Area 4	Steel Lintel	ND<1.0
121713-SV-14	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	22 RL-5.0
033114-KN-W14A	Resample	Area 4	Steel Lintel	2.0 RL-1.0
041114-BG-NW14B	Resample 2	Area 4	Steel Lintel	1.4 RL-1.0
051314-BG-W14C	Resample 3	Area 4	Steel Lintel	ND<1.0
121713-SV-15	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	8.4 RL-1.0
033114-KN-W15A	Resample	Area 4	Steel Lintel	3.7 RL-1.0
041114-BG-NW15B	Resample 2	Area 4	Steel Lintel	1.7 RL-1.0
051314-BG-W15C	Resample 3	Area 4	Steel Lintel	ND<1.0
121713-SV-16	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	3.5 RL-1.0
033114-KN-W16A	Resample	Area 4	Steel Lintel	2.2 RL-1.0
041114-BG-NW16B	Resample 2	Area 4	Steel Lintel	2.3 RL-1.0
051314-BG-W16C	Resample 3	Area 4	Steel Lintel	ND<1.0
121713-SV-17	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	ND<1.0



Sample ID	Sample Location	Work Area	Material Description	Result (µg/100 cm²)
033114-KN-W17A	Resample	Area 4	Steel Lintel	1.4 RL-1.0
041114-BG-NW17B	Resample 2	Area 4	Steel Lintel	ND<1.0
121713-SV-18	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	2.8 RL-1.0
033114-KN-W18A	Resample	Area 4	Steel Lintel	ND<1.0
121713-SV-19	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	2.6 RL-1.0
033114-KN-W19A	Resample	Area 4	Steel Lintel	ND<1.0
121713-SV-20	North Wall Windows- West Side, Top Horizontal	Area 4	Steel Lintel	6.2 RL-1.0
033114-KN-W20A	Resample	Area 4	Steel Lintel	2.5 RL-1.0
041114-BG-NW20B	Resample 2	Area 4	Steel Lintel	1.1 RL-1.0
051314-BG-W20C	Resample 3	Area 4	Steel Lintel	ND<1.0
121713-SV-DUP	North Wall Windows- West Side, Top Horizontal-duplicate	Area 4	Steel Lintel	7.6 RL-1.0
033114-KN- WDUPA	Duplicate	Area 4	Steel Lintel	4.7 RL-1.0
122713-KN-10	Resample 1	Area 4	Steel Lintel	12 RL-5.0
033114-KN-E10A	Resample 2	Area 4	Steel Lintel	2.6 RL-1.0
041114-BG-NE-10B	Resample 3	Area 4	Steel Lintel	ND<1.0
122713-KN-11	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	7.1 RL-1.0
033114-KN-E11A	Resample	Area 4	Steel Lintel	2.0 RL-1.0
041114-BG-NE-11B	Resample 2	Area 4	Steel Lintel	ND<1.0
122713-KN-12	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	32 RL-5.0
033114-KN-E12A	Resample	Area 4	Steel Lintel	2.8 RL-1.0
041114-BG-NE-12B	Resample 2	Area 4	Steel Lintel	2.0 RL-1.0
051214-BG-E12C	Resample 3	Area 4	Steel Lintel	ND<1.0
122713-KN-13	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	7.0 RL-1.0
033114-KN-E13A	Resample	Area 4	Steel Lintel	ND<0.0
122713-KN-14	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	Destroyed at lab
122713-KN- 14REDO	Replace lost/destroyed sample	Area 4	Steel Lintel	25 RL-5.0
033114-KN-E14A	Resample	Area 4	Steel Lintel	ND<0.0
122713-KN-15	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	2.4 RL-1.0



Sample ID	Sample Location	Work Area	Material Description	Result (µg/100 cm²)
033114-KN-E15A	Resample	Area 4	Steel Lintel	1.1 RL-1.0
041114-BG-NE-15B	Resample 2	Area 4	Steel Lintel	ND<0.0
122713-KN-16	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	20 RL-5.0
033114-KN-E16A	Resample	Area 4	Steel Lintel	ND<0.0
122713-KN-17	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	18 RL-5.0
033114-KN-E17A	Resample	Area 4	Steel Lintel	1.6 RL-1.0
041114-BG-NE-17B	Resample 2	Area 4	Steel Lintel	1.9 RL-1.0
051214-BG-17C	Resample 3	Area 4	Steel Lintel	ND<1.0
122713-KN-18	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	21 RL-5.0
033114-KN-E18A	Resample	Area 4	Steel Lintel	2.2 RL-1.0
041114-BG-NE-18B	Resample 2	Area 4	Steel Lintel	1.5 RL-1.0
051214-BG-E18C	Resample 3	Area 4	Steel Lintel	ND<1.0
122713-KN-19	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	20 RL-5.0
033114-KN-E19A	Resample	Area 4	Steel Lintel	ND<0.0
122713-KN-20	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	3.4 RL-1.0
033114-KN-E20A	Resample1	Area 4	Steel Lintel	1.0 RL-1.0
041114-BG-NE-20B	Resample 2	Area 4	Steel Lintel	ND<1.0
122713-KN-21	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	6.9 RL-5.0
033114-KN-E21A	Resample	Area 4	Steel Lintel	1.5 RL-1.0
041114-BG-NE-21B	Resample 2	Area 4	Steel Lintel	ND<1.0
122713-KN-22	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	13 RL-5.0
033114-KN-E22A	Resample 1	Area 4	Steel Lintel	2.1 RL-1.0
041114-BG-NE-22B	Resample 2	Area 4	Steel Lintel	1.6 RL-1.0
051214-BG-E22C	Resample 3	Area 4	Steel Lintel	ND<1.0
122713-KN-23	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	17 RL-5.0
033114-KN-E23A	Resample	Area 4	Steel Lintel	ND<0.0
122713-KN-24	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	15 RL-5.0
033114-KN-E24A	Resample	Area 4	Steel Lintel	ND<0.0



Sample ID	Sample Location	Work Area	Material Description	Result (µg/100 cm²)
122713-KN-25	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	5.3 RL-1.0
033114-KN-E25A	Resample	Area 4	Steel Lintel	ND<0.0
122713-KN-26	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	11 RL-5.0
033114-KN-E26A	Resample	Area 4	Steel Lintel	ND<0.0
122713-KN-27	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	6.0 RL-1.0
033114-KN-E27A	Resample	Area 4	Steel Lintel	Destroyed in lab
040214KN-E27B	Resample 2	Area 4	Steel Lintel	1.4 RL-1.0
122713-KN-28	Resample 3	Area 4	Steel Lintel	10.0 RL-1.0
033114-KN-E28A	Resample 4	Area 4	Steel Lintel	ND<0.0
122713-KN-29	North Wall Windows- East Side, Top Horizontal	Area 4	Steel Lintel	2.3 RL-1.0
033114-KN-E29A	Resample	Area 4	Steel Lintel	ND<0.0
033114-KN-EDUPA	Duplicate	Area 4	Steel Lintel	2.8 RL-1.0
051214-BG-E18- DUPC	Duplicate Resample	Area 4	Steel Lintel	ND<1.0
020614-SV-01	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	4.2 RL-1.0
033114-KN-S11A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-02	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	2.6 RL-1.0
033114-KN-S12A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-03	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	1.9 RL-1.0
033114-KN-S13A	Resample	Area 6	Steel Lintel	1.2 RL=1.0
041014-SV-S13B	Resample-2	Area 6	Steel Lintel	ND<1.0
020614-SV-04	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	1.6 RL-1.0
033114-KN-S14A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-05	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	9.4 RL-1.0
033114-KN-S15A	Resample	Area 6	Steel Lintel	1.2 RL-1.0
041014-SV-S15B	Resample 2	Area 6	Steel Lintel	1.2 RL-1.0
051214-BG-S15C	Resample 3	Area 6	Steel Lintel	ND<1.0
020614-SV-06	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	3.7 RL-1.0
033114-KN-S16A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-07	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	2.2 RL-1.0



Sample ID	Sample Location	Work Area	Material Description	Result (µg/100 cm²)
033114-KN-S17A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-08	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	4.6 RL-1.0
033114-KN-S18A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-09	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	1.8 RL-1.0
033114-KN-S19A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-10	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	ND<1.0
020614-SV-11	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	ND<1.0
020614-SV-12	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	ND<1.0
020614-SV-13	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	3.5 RL-1.0
033114-KN-S20A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-14	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	1.1 RL=1.0
033114-KN-S21A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-15	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	ND<1.0
020614-SV-16	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	3.3 RL-1.0
033114-KN-S22A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-17	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	3.1 RL-1.0
033114-KN-S23A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-18	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	4.9 RL-1.0
033114-KN-S24A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-19	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	2.7 RL-1.0
033114-KN-S25A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-20	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	5.3 RL-1.0
033114-KN-S26A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-21	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	2.6 RL-1.0
033114-KN-S27A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-22	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	1.2 RL-1.0
033114-KN-S28A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-23	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	6.4 RL-1.0
033114-KN-S29A	Resample	Area 6	Steel Lintel	1.7 RL-1.0



Sample ID	Sample Location	Work Area	Material Description	Result (µg/100 cm²)
041014-SV-S-29B	Resample 2	Area 6	Steel Lintel	4.3 RL=1.0
051214-BG-S29C	Resample 3	Area 6	Steel Lintel	ND<1.0
020614-SV-24	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	3.6 RL-1.0
033114-KN-S30A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-25	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	5.3 RL-1.0
033114-KN-S31A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-26	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	3.0 RL-1.0
033114-KN-S32A	Resample	Area 6	Steel Lintel	ND<1.0
020614-SV-DUP1	South Wall Windows- East Side, Top Horizontal	Area 6	Steel Lintel	ND<1.0

ND = None Detected; RL = Reporting Limit

The analytical reports and sample locations for the Wipe Verification Sampling are provided in *Appendix D*.

### 3.3.3 Soil Verification Sampling

Soil verification sampling was performed in accordance with 40 CFR 761.61 Sub-part O. Four-point composite samples were collected approximately every 1.5 meters in a grid pattern. Results were compared to the clearance objective for unrestricted use of soil, ≤1 mg/kg using the extraction method 3540C and analysis method SW846 8082.

The results of the Soil Verification Sampling are described in **Table 3** below. Sample data that is in bold reflects sample results that exceeded the standard. Resampling data has been provided directly below samples that exceeded the standard. Reporting levels were observed below the standard for all samples unless noted in the table.

Please note that the depths (inches) reflect depth from grade surface after planned excavation to remove contaminated soil was completed, for example if a sample was collected at 4" and a resample at 12" then the resample was collected after the removal of 8" of contaminated soil):

Table 3 – Soil Verification Sample Results

Sample ID	Sample Location	Area	Material Description	Result (mg/kg)
110713-SV-01	Cafeteria- West Side, 4"	15	Soil	ND<3.7
010914-SV-01A	12" - Resample	15	Soil	ND<0.41
110713-SV-02	Cafeteria- West Side, 4"	15	Soil	ND<0.39
110713-SV-03	Cafeteria- West Side, 4"	15	Soil	ND<3.7
010914-SV-03A	12-16" - Resample	15	Soil	ND<0.41



Sample ID	Sample Location	Area	Material Description	Result (mg/kg)
110713-SV-04	Cafeteria- West Side, 4"	15	Soil	ND<0.37
110713-SV-05	Cafeteria- West Side, 8"	15	Soil	ND<18
010914-SV-05A	12" - Resample	15	Soil	1.2 RL-0.43
011614-SV-05B	16" - Resample	15	Soil	ND<0.42
110713-SV-06	Cafeteria- West Side, 4"	15	Soil	ND<0.36
110713-SV-07	Cafeteria- West Side, 4"	15	Soil	ND<19
010914-SV-07A	12" - Resample	15	Soil	ND<0.45
110713-SV-08	Cafeteria- West Side, 4"	15	Soil	ND<0.39
110713-SV-09	Cafeteria- West Side, 4"-Matrix Spike	15	Soil	ND<3.7
010914-SV-09A	12" - Resample	15	Soil	ND<0.45
110713-SV-10	Cafeteria- West Side	15	Soil	ND<3.8*
110713-SV-11	Cafeteria- West Side, 4"	15	Soil	ND<3.7
010914-SV-11A	12" - Resample	15	Soil	ND<0.44
110713-SV-12	Cafeteria- West Side, 4"	15	Soil	ND<0.38
110713-SV-13	Cafeteria- West Side, 4"	15	Soil	ND<3.7
010914-SV-13A	12" - Resample	15	Soil	ND<0.44
110713-SV-14	Cafeteria- West Side, 4"	15	Soil	ND<3.5
010914-SV-14A	12" - Resample	15	Soil	ND<0.42
110713-SV-15	Cafeteria- West Side, 4"	15	Soil	ND<3.6
010914-SV-15A	Cafeteria- West, (Area 15), 12" - Resample	15	Soil	ND<0.41
110713-SV-16DUP	Cafeteria- West Side, 4"	15	Soil	ND<3.9
010914-SV-16A	Cafeteria- West, (Area 15), 12" - Resample	15	Soil	ND<0.45
032114-BG-01	Southside - South Building West (Area 10), 4"	10	Soil	ND<0.36
032114-BG-02	Southside - South Building West (Area 10), 4"	10	Soil	ND<0.37
032114-BG-03	Southside- South Building West (Area 10), 4"	10	Soil	ND<0.39
032114-BG-04	Southside - South Building West (Area 10), 4"	10	Soil	ND<0.42
032114-BG-05	Southside - South Building West (Area 10), 4"	10	Soil	ND<0.4
032114-BG-06	Southside - South Building West (Area 10), 4"	10	Soil	ND<0.43
032114-BG-07	Southside - South Building West (Area 10), 4"	10	Soil	ND<0.37
032114-BG-08	Southside - South Building West (Area 10), 4"	10	Soil	ND<0.39
032114-BG-09	Southside - South Building West (Area 10), 4"	10	Soil	ND<0.4
032114-BG-09DUP	Southside - South Building West (Area 10), 4" - Duplicate	10	Soil	ND<0.39
032114-BG-10	Southside - South Building West (Area 10), 4"	10	Soil	ND<0.37
032114-BG-11	Southside - South Building West (Area 10), 4"	10	Soil	ND<0.39
032114-BG-12	Southside - South Building West (Area 10), 4"	10	Soil	ND<0.38
032814-SV-01	South Wall - Main Building Depth 24"	6	Soil	ND<0.4
032814-SV-02	South Wall - Main Building Depth 24"	6	Soil	ND<0.4
032814-SV-03	South Wall - Main Building Depth 24"	6	Soil	ND<0.4
032814-SV-04	South Wall - Main Building Depth 24"	6	Soil	ND<0.41
032814-SV-05	South Wall - Main Building Depth 8"	6	Soil	7.2 RL-2



Sample ID	Sample Location	Area	Material Description	Result (mg/kg)
041114-BG-SW5B	16"- Resample	6	Soil	1.2 RL-0.36
041714-BG-SW5C	32"-Resample	6	Soil	ND<0.39
032814-SV-06	South Wall- Main Building Depth 8"	6	Soil	ND<1.9
041114-BG-SW6B	16"- Resample	6	Soil	1.1 RL-0.37
041714-BG-SW6C	32" - Resample	6	Soil	ND<0.38
032814-SV-07	South Wall- Main Building Depth 8"	6	Soil	1 RL-0.36
041114-BG-SW7B	16"- Resample	6	Soil	1.7 RL-0.4
041714-BG-SW7C	32"-Resample	6	Soil	ND<0.39
032814-SV-08	South Wall- Main Building Depth 8"	6	Soil	0.92 RL-0.38
032814-SV-09	8"- Resample	6	Soil	1.7 RL-0.4
041114-BG-SW9B	16"-Resample	6	Soil	0.5 RL-0.37
032814-SV-10	South Wall- Main Building Depth 8"	6	Soil	18 RL-3.8
041114-BG-SW10B	16"-Resample	6	Soil	0.45 RL-0.36
032814-SV-11	South Wall- Main Building Depth 8"	6	Soil	2.1 RL-0.42
041114-BG-SW11B	16"-Resample	6	Soil	0.68 RL-0.42
032814-SV-12	South Wall- Main Building Depth 8"	6	Soil	1.2 RL-0.4
041114-BG-SW12B	16"-Resample	6	Soil	ND<0.37
032814-SV-13	South Wall- Main Building Depth 8"	6	Soil	3.3 RL-0.42
032814-SV-13D	South Wall- Main Building Depth 24"	6	Soil	5.3 RL-2.1
041114-BG-SW13B	32"-Resample	6	Soil	ND<0.4
041114-BG-SW13B DUP	32"-Duplicate	6	Soil	0.49 RL-0.4
032814-SV-14	South Wall- Main Building Depth 8"	6	Soil	16 RL-4
041114-BG-SW14B	16"-Resample	6	Soil	0.53 RL-0.38
032814-SV-15	South Wall- Main Building Depth 8"	6	Soil	3.1 RL-2.1



Sample ID	Sample Location	Area	Material Description	Result (mg/kg)
041114-BG-SW15B	16"-Resample	6	Soil	0.66 RL-0.38
032814-SV-16	South Wall- Main Building Depth 8"	6	Soil	4.8 RL-1.8
041114-BG-SW16B	16"-Resample	6	Soil	ND<0.34
032814-SV-17	South Wall- Main Building Depth 8"	6	Soil	1.2 RL-0.35
041114-BG-SW17B	16"-Resample	6	Soil	ND<0.34
032814-SV-18	South Wall- Main Building Depth 8"	6	Soil	1.6 RL-0.36
041114-BG-SW18B	16"-Resample	6	Soil	ND<0.35
032814-SV-19	South Wall- Main Building Depth 8"	6	Soil	ND<0.36
032814-SV-20	South Wall- Main Building Depth 8"	Area 6	Soil	0.8 RL-0.36
032814-SV-21	South Wall- Main Building Depth 8"	6	Soil	ND<0.36
032814-SV-22	South Wall- Main Building Depth 8"	6	Soil	ND<0.35
040214-SV-01	East Wall- Main Building Depth 24"	5	Soil	ND<0.42
040214-SV-02	East Wall- Main Building Depth 24"	5	Soil	1 RL-0.43
041114-BG-E2B	32"-Resample	Area 5	Soil	0.8 RL-0.37
040214-SV-03	East Wall- Main Building Depth 24"	5	Soil	27 RL-4
041114-BG-E3B	32"-Resample	5	Soil	ND<0.4
040214-SV-04	East Wall- Main Building Depth 24"	5	Soil	ND<0.4
040214-SV-05	East Wall- Main Building Depth 24"	5	Soil	2.5 RL-0.42
041114-BG-E5B	32"-Resample	Area 5	Soil	1.5 RL-0.42
041714-BG-E5C	48"-Resample	5	Soil	ND<0.38
040214-SV-06	East Wall- Main Building Depth 24"	5	Soil	ND<0.4
040214-SV-07	East Wall- Main Building Depth 24"	5	Soil	2.6 RL-0.4
041114-BG-E7B	Resample-32"	5	Soil	ND<0.39
040214-SV-08	East Wall- Main Building Depth 24"	5	Soil	ND<0.4
040214-SV-09	East Wall- Main Building Depth 24"	5	Soil	2.1 RL-0.42
041114-BG-E9B	32"-Resample	5	Soil	0.42 RL-0.4
040214-SV-10	East Wall- Main Building Depth 24"	5	Soil	ND<0.39
040414-BG-01	South Wall- Main Building Excavation Extension, Depth 8"	6	Soil	ND<0.38



Sample ID	Sample Location	Area	Material Description	Result (mg/kg)
040414-BG-02	South Wall- Main Building Excavation Extension, Depth 8"	6	Soil	ND<0.38
040414-BG-03	South Wall- Main Building Excavation Extension, Depth 8"	6	Soil	ND<0.39
040414-BG-04	South Wall- Main Building Excavation Extension, Depth 8"	6	Soil	ND<0.38
040414-BG-05	South Wall- Main Building Excavation Extension, Depth 8"	6	Soil	ND<0.36
040414-BG-06	South Wall- Main Building Excavation Extension, Depth 8"	6	Soil	ND<0.35
040414-BG-07	South Wall- Main Building Excavation Extension, Depth 8"	6	Soil	ND<0.18
040714-SV-01	North Wall- Main Building Depth 24"	4	Soil	0.6 RL-0.42
040714-SV-02	North Wall- Main Building Depth 24"	4	Soil	ND<0.37
040714-SV-03	North Wall- Main Building Depth 24"	4	Soil	ND<0.36
040714-SV-04	North Wall- Main Building Depth 24"	4	Soil	ND<0.42
040714-SV-05	North Wall- Main Building Depth 24"	4	Soil	ND<0.38
040714-SV-06	North Wall- Main Building Depth 24"	4	Soil	ND<0.42
040714-SV-07	North Wall- Main Building Depth 24"	4	Soil	1 RL-0.4
041014-SV-07A	32"-Resample	4	Soil	ND<0.37
040714-SV-08	North Wall- Main Building Depth 24"	4	Soil	ND<0.43
040714-SV-09	North Wall- Main Building Depth 24"	Area 4	Soil	1.1 RL-0.39
041014-SV-09A	32"-Resample	4	Soil	ND<0.38
040714-SV-10	North Wall- Main Building Depth 24"	4	Soil	ND<0.38
040714-SV-11	North Wall- Main Building Depth 24"	4	Soil	ND<0.39
040714-SV-12	North Wall- Main Building Depth 24"	4	Soil	ND<0.38
040714-SV-13	North Wall- Main Building Depth 24"	4	Soil	ND<0.37
040714-SV-14	North Wall- Main Building Depth 24"	4	Soil	ND<0.39
040714-SV-15	North Wall- Main Building Depth 24"	Area 4	Soil	0.77 RL-0.38
040714-SV-16	North Wall- Main Building Depth 24"	4	Soil	ND<0.39
040714-SV-17	North Wall- Main Building Depth 24"	4	Soil	0.8 RL-0.4
040714-SV-18	North Wall- Main Building Depth 24"	4	Soil	ND<0.4
040714-SV-19	North Wall- Main Building Depth 24"	4	Soil	0.67 RL-0.4
040714-SV-20	North Wall- Main Building Depth 24"	4	Soil	ND<0.39
040714-SV-21	North Wall- Main Building Depth 24"	4	Soil	1.4 RL-0.42
041014-SV-21A	32"- Resample	4	Soil	ND<0.38



Sample ID	Sample Location	Area	Material Description	Result (mg/kg)
040714-SV-22	North Wall- Main Building Depth 24" 4		Soil	ND<0.4
040714-SV-23	North Wall- Main Building Depth 24" 4		Soil	ND<0.37
040714-SV-24	North Wall- Main Building Depth 24" 4		Soil	ND<0.39
040714-SV-25	North Wall- Main Building Depth 24" 4		Soil	ND<0.38
040714-SV-26	North Wall- Main Building Depth 24" 4		Soil	ND<0.39
040714-SV-27	North Wall- Main Building Depth 24"		Soil	ND<0.39
040714-SV-28	North Wall- Main Building Depth 24" 4		Soil	ND<0.39
040714-SV-29	North Wall- Main Building Depth 24" 4		Soil	ND<0.4
040714-SV-30	North Wall- Main Building Depth 24"		Soil	1.2 RL-0.4
041014-SV-30A	32"-Resample	4	Soil	ND<0.37

ND = None Detected; RL = Reporting Limit

The analytical reports for the Soil Verification Sampling and sample locations are provided in *Appendix D* 

## 3.4 Post-Remediation Verification Sampling-SIDP Modification Scope

## 3.4.1 Transformer Vault Soil Sampling

A 200 SF concrete pad associated with the former transformer vault was tested for PCBs due to evidence of visible oil staining. Two samples collected were reported by the laboratory with a PCB concentration (1.5 and 1.3 mg/kg). After the removal of the concrete pad as PCB Remediation Waste, the underlying soils were tested for PCBs for pre-characterization. Soil samples were collected approximately every 1.5 meters in a grid pattern. Results were compared to the unrestricted use of soil concentration of ≤1 mg/kg using the extraction method 3540C and analysis method SW846 8082.

The results of the Transformer Vault Soil Sampling are in Table 4.

Table 4 - Transformer Vault Soil Sample Results

Sample ID	Sample Location	Material	Results (mg/kg)
061314-BG-1A	Depth 4"	Soil	ND<0.43
061314-BG-2A	Depth 4"	Soil	ND<0.41
061314-BG-3A	Depth 4"	Soil	ND<0.41
061314-BG-4A	Depth 4"	Soil	ND<0.39
061314-BG-5A	Depth 4"	Soil	ND<0.42
061314-BG-6A	Depth 4"	Soil	ND<0.53

<sup>\*</sup>Note sample 110713-SV-16DUP represents duplicate sample in sample 110713-SV-10 location, therefore sample 010914-SV-16A represents re-sample of this grid location.



Sample ID	Sample Location	Material	Results (mg/kg)
061314-BG-7A	Depth 4"	Soil	ND<0.72
061314-BG-8A	Depth 4"	Soil	ND<0.69
061314-BG-9A	Depth 4"	Soil	ND<0.69
061314-BG-10A	Depth 4"	Soil	ND<0.53
061314-BG-1B	Depth 8"	Soil	ND<0.63
061314-BG-2B	Depth 8"	Soil	ND<0.58
061314-BG-3B	Depth 8"	Soil	ND<0.41
061314-BG-4B	Depth 8"	Soil	ND<0.57
061314-BG-5B	Depth 8"	Soil	ND<0.4
061314-BG-6B	Depth 8"	Soil	ND<0.66
061314-BG-7B	Depth 8"	Soil	ND<0.96
061314-BG-8B	Depth 8"	Soil	ND<0.73
061314-BG-9B	Depth 8"	Soil	ND<0.55
061314-BG-10B	Depth 8"	Soil	ND<0.43
1112BG-01	Excavated Soil Stockpile 5 point composite sample	Soil	ND<0.38

ND = None Detected

All samples were none detected for PCBs with reporting limits less than 1 mg/kg. The analytical reports and sampling locations for the Transformer Vault Soil Sampling are provided in *Appendix D*.

# 3.4.2 Former Hazardous Waste Storage Area (HWSA) Soil Sampling

A 150 SF concrete slab associated with the former hazardous materials storage room was tested for PCBs. The slab was tested due to the historical use of the room and evidence of visible oil staining. Three samples collected were reported with PCB concentrations below 1 mg/kg, but detected above laboratory reporting limits, demonstrating PCBs present.

After removal of the PCB contaminated concrete, soil samples were collected approximately every 1.5 meters in a grid pattern within the footprint and beyond the footprint to assess underlying soils and also to facilitate HWSA closure with the Connecticut Department of Environmental and Energy Protection (CTDEEP).

Results were compared to the unrestricted use of soil, ≤1 mg/kg using the extraction method 3540C and analysis method SW846 8082.

The results of the Former Hazardous Waste Storage Area Soil Verification Sampling are as follows:



Table 5 - Former Hazardous Waste Storage Area Soil Verification Sample Results

Grid Location	Sample ID	Sample Location	Material	Results (mg/kg)
1	061814-BG-1A	Sample depth 4"	Soil	ND<0.52
1	061814-BG-1B	Sample Depth 8"	Soil	NB<0.41
1	061814-BG-1C	Sample Depth 12"	Soil	ND<0.4
2	061814-BG-2A	Sample Depth 4"	Soil	ND<0.44
2	061814-BG-2B	Sample Depth 8"	Soil	ND<0.47
2	061814-BG-2C	Sample Depth 12"	Soil	ND<0.49
3	061814-BG-3A	Sample Depth 4"	Soil	ND<0.84
3	061814-BG-5B	Sample Depth 8"	Soil	ND<0.44
3	061814-BG-3C	Sample Depth 12"	Soil	ND<0.43
3-DUP	061814-BG-4C	Sample Depth 12"-Duplicate	Soil	ND<0.46
4	061814-BG-4A	Sample Depth 4"	Soil	ND<0.42
4	061814-BG-6B	Sample Depth 8"	Soil	ND<0.4
4	061814-BG-5C	Sample Depth 12"	Soil	ND<0.41
5	061814-BG-A5	Sample Depth 4"	Soil	ND<0.37
5	061814-BG-7B	Sample Depth 8"	Soil	1 RL- 0.35
5WA	063014-BG-5WA	1.5 Meter Grid West of Grid 5. Sample Depth 4"	Soil	ND<0.52
5WB-DUP	063014-BG-5WB	1.5 Meter Grid West of Grid 5. Sample Depth 4"-Duplicate	Soil	ND<0.52
5WC	063014-BG-5WC	1.5 Meter Grid West of Grid 5. Sample Depth 8"	Soil	ND<0.54
5WD-DUP	063014-BG-5WD	1.5 Meter Grid West of Grid 5. Sample Depth 8"-Duplicate	Soil	ND<0.52
6	061814-BG-6A	Sample Depth 4"	Soil	ND<0.36
6	061814-BG-8B	Sample Depth 8"	Soil	ND<0.38
7	061814-BG-7A	Sample Depth 4"	Soil	ND<0.41
7	061814-BG-9B	Sample Depth 8"	Soil	ND<0.4
8	061814-BG-8A	Sample Depth 4"	Soil	ND<0.38
8	061814-BG-10B	Sample Depth 8"	Soil	ND<0.39
9	061814-BG-9A	Sample Depth 4"	Soil	ND<0.39
9-DUP	061814-BG-10A	Sample Depth 4"-Duplicate	Soil	ND<0.39
9	061814-BG-11B	Sample Depth 8"	Soil	ND<0.38
10	061814-BG-11A	Sample Depth 4"	Soil	ND<0.39
10	061814-BG-12B	Sample Depth 8"	Soil	ND<0.39
Waste Profile	062514-BG-01	Excavated Soil Stockpile 5 Point Composite Sample	Soil	ND<0.46

ND = None Detected; RL = Reporting Limit



The analytical reports for the Former Hazardous Waste Storage Area Soil Sampling and sample locations are provided in *Appendix D*. One sample was reported at 1 mg/kg. This area was further excavated as part of the former maintenance garage excavation and soils were removed at PCB Remediation Waste as discussed in the proceeding section.

# 3.4.3 Former Maintenance Garage Area Soil Sampling

The original concrete slab encountered beneath a later installed concrete slab was tested and identified to contain PCBs most likely due to historical use of the area as a maintenance garage. EnviroScience did not conduct this sampling. HRP Associates, Inc. (HRP) conducted the testing due to property transfer obligations between CREC and the previous Owner. Upon these findings HRP conducted sub slab soil sampling for several constituents of concern due to historical site use. A total of 17 samples were collected and included analysis for PCBs. All samples were reported none detected for PCBs.

After the complete removal of the PCB contaminated concrete slab, EnviroScience conducted soil precharacterization sampling was performed in accordance with 40 CFR 761.61 Sub-part N. Soil samples were collected approximately every 3 meters as part of the initial assessment for the potential presence of PCBs due to the removal of PCB contaminated concrete slab (Refer to Table 6A for precharacterization sample analyses). After identifying PCB concentrations, the entire area footprint was excavated approximately 1 foot below grade surface and post remediation verification soil samples were collected every 1.5 meters in a grid pattern in accordance with Sub-part O (Refer to Table 6B for post remediation verification sample analyses). Results were compared to the clearance objective for unrestricted use of soil, ≤1 mg/kg using the extraction method 3540C and analysis method SW846 8082.

The results of the former Maintenance Garage Area Soil Verification Sampling are as follows:

Table 6A – Former Maintenance Garage Area 3 Meter Soil Pre-Characterization Sample Results

Grid Location	Sample ID	Sample Location	Material	Results (mg/kg)
A1	070114-BG-A1	Depth 4"	Soil	ND<0.49
A2	070114-BG-A2	Depth 4"	Soil	ND<0.41
A3	070114-BG-A3	Depth 4"	Soil	2.1 RL- 1.7
A4	070114-BG-A4	Depth 4"	Soil	ND<0.61
A5	070114-BG-A5	Depth 4"	Soil	ND<0.4
A6	070114-BG-A6	Depth 4"	Soil	ND<0.33
B1	070114-BG-B1	Depth 4"	Soil	ND<0.33
B2	070114-BG-B2	Depth 4"	Soil	ND<0.5
В3	070114-BG-B3	Depth 4"	Soil	ND<0.41
B4	070114-BG-B4	Depth 4"	Soil	1 RL- 0.41



Grid Location	Sample ID	Sample Location	Material	Results (mg/kg)
В5	070114-BG-B5	Depth 4"	Soil	ND<0.33
В6	070114-BG-B6	Depth 4"	Soil	ND<0.33
C1	070114-BG-C1	Depth 4"	Soil	ND<0.33
C2	070114-BG-C2	Depth 4"	Soil	ND<0.33
C3	070114-BG-C3	Depth 4"	Soil	ND<0.49
C4	070114-BG-C4	Depth 4"	Soil	ND<0.48
C5	070114-BG-C5	Depth 4"	Soil	1.2 RL- 0.45
C6	070114-BG-C6	Depth 4"	Soil	ND<0.44
D1	070114-BG-D1	Depth 4"	Soil	ND<0.49
D2	070114-BG-D2	Depth 4"	Soil	ND<0.4
D2-DUP	070114-BG-D2A	Depth 4"-Duplicate	Soil	ND<0.62
D3	070114-BG-D3	Depth 4"	Soil	ND<0.71
D4	070114-BG-D4	Depth 4"	Soil	0.76 RL- 0.33
D5	070114-BG-D5	Depth 4"	Soil	ND<0.71
D6	070114-BG-D6	Depth 4"	Soil	0.93 RL- 0.33
E1	070114-BG-E1	Depth 4"	Soil	ND<0.33
E2	070114-BG-E2	Depth 4"	Soil	ND<0.33
E3	070114-BG-E3	Depth 4"	Soil	ND<0.33
E4	070114-BG-E4	Depth 4"	Soil	1.1 RL- 0.33
E5	070114-BG-E5	Depth 4"	Soil	0.98 RL- 0.82
E6	070114-BG-E6	Depth 4"	Soil	0.34 RL- 0.33
F1	070114-BG-F1	Depth 4"	Soil	ND<0.33
F2	070114-BG-F2	Depth 4"	Soil	ND<0.33
F3	070114-BG-F3	Depth 4"	Soil	0.37 RL- 0.33
F4	070114-BG-F4	Depth 4"	Soil	0.95 RL- 0.33
F5	070114-BG-F5	Depth 4"	Soil	0.96 RL- 0.41
F6	070114-BG-F6	Depth 4"	Soil	ND<0.33
G1	070114-BG-G1	Depth 4"	Soil	ND<0.33
G2	070114-BG-G2	Depth 4"	Soil	ND<0.4
G3	070114-BG-G3	Depth 4"	Soil	ND<0.7
G4	070114-BG-G4	Depth 4"	Soil	ND<0.33
G4-DUP	070114-BG-G4A	Depth 4"-Duplicate	Soil	ND<0.38



Grid Location	Sample ID	Sample Location	Material	Results (mg/kg)
H1	070114-BG-I1	Depth 4"	Soil	ND<0.33
H2	070114-BG-H2	Depth 4"	Soil	ND<0.33
Н3	070114-BG-H3	Depth 4"	Soil	ND<0.33
H4	070114-BG-H4	Depth 4"	Soil	ND<0.35
I1	070114-BG-I1	Depth 4"	Soil	ND<0.33
I2	070114-BG-I2	Depth 4"	Soil	ND<0.33
I3	070114-BG-I3	Depth 4"	Soil	ND<0.54
<b>I</b> 4	070114-BG-I4	Depth 4"	Soil	0.37 RL- 0.37
I5	070114-BG-I5	Depth 4"	Soil	ND<0.33
J1	070114-BG-J1	Depth 4"	Soil	ND<0.33
J2	070114-BG-J2	Depth 4"	Soil	ND<0.32
Ј3	070114-BG-J3	Depth 4"	Soil	0.35 RL- 0.33
J4	070114-BG-J4	Depth 4"	Soil	1.4 RL- 0.33
J5	070114-BG-J5	Depth 4"	Soil	ND<0.33
J6	070114-BG-J6	Depth 4"	Soil	ND<0.33
K1	070114-BG-K1	Depth 4"	Soil	ND<0.33
K2	070114-BG-K2	Depth 4"	Soil	0.45 RL- 0.32
К3	070114-BG-K3	Depth 4"	Soil	1.1 RL- 0.33
<b>K</b> 4	070114-BG-K4	Depth 4"	Soil	0.85 RL- 0.33
K5	070114-BG-K5	Depth 4"	Soil	ND<0.33
K5-DUP	070114-BG-K5A	Depth 4"-Duplicate	Soil	ND<0.33
K6	070114-BG-K6	Depth 4"	Soil	ND<0.33
L1	070114-BG-L1	Depth 4"	Soil	ND<0.32
L2	070114-BG-L2	Depth 4"	Soil	ND<0.33
L3	070114-BG-L3	Depth 4"	Soil	2.2 RL- 0.97
L4	070114-BG-L4	Depth 4"	Soil	1.4 RL- 0.33
L5	070114-BG-L5	Depth 4"	Soil	ND<0.32
L6	070114-BG-L6	Depth 4"	Soil	ND<0.33
M1	070114-BG-M1	Depth 4"	Soil	ND<0.36
M2	070114-BG-M2	Depth 4"	Soil	0.35 RL- 0.33
М3	070114-BG-M3	Depth 4"	Soil	1.2 RL- 0.33



Grid Location	Sample ID	Sample Location	Material	Results (mg/kg)
M4	070114-BG-M4	Depth 4"	Soil	2.6 RL- 0.33
M5	070114-BG-M5	Depth 4"	Soil	1.2 RL- 0.33
M6	070114-BG-M6	Depth 4"	Soil	ND<0.32

ND = None Detected; RL = Reporting Limit

The soil analytical reports for the three meter sampling grid at the Former Maintenance Garage Area and sampling locations are provided in *Appendix D*.

Table 6B - Former Maintenance Garage 1.5 Meter Soil Post Remediation Verification Sample Results

Grid Location	Sample ID	Sample Location	Excavated Depth	Material	Results (mg/kg)
A1	Garage Area- BG-A1	Depth 4"	Depth 12"	Soil	ND<0.43
A2	Garage Area- BG-A2	Depth 4"	Depth 12"	Soil	ND<0.29
A3	Garage Area- BG-A3	Depth 4"	Depth 12"	Soil	ND<0.4
A4	Garage Area- BG-A4	Depth 4"	Depth 12"	Soil	ND<0.4
A5	Garage Area- BG-A5	Depth 4"	Depth 12"	Soil	ND<0.39
A6	Garage Area- BG-A6	Depth 4"	Depth 12"	Soil	ND<0.39
A7	Garage Area- BG-A7	Depth 4"	Depth 12"	Soil	ND<0.39
A8	20140801-KR A8	Depth 4"	Depth 12"	Soil	ND<0.4
A9	20140801-KR A9	Depth 4"	Depth 12"	Soil	ND<0.39
A10	KR-A10	Depth 4"	Depth 12"	Soil	ND<0.39
A11	KR-A11	Depth 4"	Depth 12"	Soil	ND<0.36
A12	KR-A12	Depth 4"	Depth 12"	Soil	0.9 RL- 0.36
A12	081514-KN-02-A12	Depth 4" Resample	Depth 24"	Soil	ND<0.4
A13	KR-A13	Depth 4"	Depth 12"	Soil	ND<0.36
B1	Garage Area- BG-B1	Depth 4"	Depth 12"	Soil	ND<0.38
B2	Garage Area- BG-B2	Depth 4"	Depth 12"	Soil	ND<0.4
В3	Garage Area- BG-B3	Depth 4"	Depth 12"	Soil	ND<0.41
B4	Garage Area- BG-B4	Depth 4"	Depth 12"	Soil	ND<0.43
B5	Garage Area- BG-B5	Depth 4"	Depth 12"	Soil	ND<0.36
В6	Garage Area- BG-B6	Depth 4"	Depth 12"	Soil	ND<0.37
В7	Garage Area- BG-B7	Depth 4"	Depth 12"	Soil	ND<0.39
B7-DUP	Garage Area- BG-B7B	Depth 4"- Duplicate	Depth 12"	Soil	ND<0.36
B8	20140801-KR B8	Depth 4"	Depth 12"	Soil	0.44 RL- 0.35



Grid Location	Sample ID	Sample Location	Excavated Depth	Material	Results (mg/kg)
В8	081514-KN-01-B8	Depth 4" Resample	Depth 24"	Soil	ND<0.43
В9	20140801-KR B9	Depth 4"	Depth 12"	Soil	ND<0.38
B10	KR-B10	Depth 4"	Depth 12"	Soil	ND<0.42
B11	KR-B11	Depth 4"	Depth 12"	Soil	ND<0.36
B12	KR-B12	Depth 4"	Depth 12"	Soil	ND<0.43
B13	KR-B13	Depth 4"	Depth 12"	Soil	ND<0.42
C1	Garage Area- BG-C1	Depth 4"	Depth 12"	Soil	0.62 RL- 0.36
C1	KR-C1	Depth 4"	Depth 18"	Soil	2.7 RL- 1.7
C1	081214-BG-C1	Depth 4" Resample	Depth 30"	Soil	ND<0.41
C2	Garage Area- BG-C2	Depth 4"	Depth 12"	Soil	ND<0.36
C3	Garage Area- BG-C3	Depth 4"	Depth 12"	Soil	ND<0.4
C4	Garage Area- BG-C4	Depth 4"	Depth 12"	Soil	ND<0.39
C5	Garage Area- BG-C5	Depth 4"	Depth 12"	Soil	ND<0.38
C6	Garage Area- BG-C6	Depth 4"	Depth 12"	Soil	ND<0.37
C7	Garage Area- BG-C7	Depth 4"	Depth 12"	Soil	ND<0.34
C8	20140801-KR C8	Depth 4"	Depth 12"	Soil	ND<0.37
C9	20140801-KR C9	Depth 4"	Depth 12"	Soil	ND<0.35
C10	KR-C10	Depth 4"	Depth 12"	Soil	ND<0.36
C11	KR-C11	Depth 4"	Depth 12"	Soil	ND<0.4
C12	KR-C12	Depth 4"	Depth 12"	Soil	ND<0.42
C13	KR-C13	Depth 4"	Depth 12"	Soil	1.5 RL- 0.35
C13	081514-KN-03-C13	Depth 4" Resample	Depth 24"	Soil	0.4 RL- 0.4
D1	Garage Area-BG-D1A	Depth 4"	Depth 12"	Soil	ND<0.35
D1-DUP	Garage Area-BG-D1B	Depth 4"- Duplicate	Depth 12"	Soil	ND<0.38
D2	Garage Area- BG-D2	Depth 4"	Depth 12"	Soil	ND<0.37
D3	Garage Area- BG-D3	Depth 4"	Depth 12"	Soil	ND<0.39
D4	Garage Area- BG-D4	Depth 4"	Depth 12"	Soil	ND<0.36
D5	Garage Area- BG-D5	Depth 4"	Depth 12"	Soil	ND<0.36
D6	Garage Area- BG-D6	Depth 4"	Depth 12"	Soil	ND<0.41
D7	Garage Area- BG-D7	Depth 4"	Depth 12"	Soil	ND<0.4
D8	20140801-KR D8	Depth 4"	Depth 12"	Soil	ND<0.38
D9	20140801-KR D9	Depth 4"	Depth 12"	Soil	0.7 RL- 0.37
D9	081514-KN-04-D9	Depth 4" Resample	Depth 24"	Soil	ND<0.45
D10	KR-D10	Depth 4"	Depth 12"	Soil	ND<0.36



Grid Location	Sample ID	Sample Location	Excavated Depth	Material	Results (mg/kg)
D11	KR-D11	Depth 4"	Depth 12"	Soil	ND<0.38
D12	KR-D12	Depth 4"	Depth 12"	Soil	ND<0.4
D13	KR-D13	Depth 4"	Depth 12"	Soil	ND<0.37
E1	Garage Area- BG-E1	Depth 4"	Depth 12"	Soil	ND<0.37
E2	Garage Area- BG-E2	Depth 4"	Depth 12"	Soil	ND<0.35
Е3	Garage Area- BG-E3	Depth 4"	Depth 12"	Soil	0.49 RL- 0.35
Е3	KR-E3	Depth 4" Resample	Depth 18"	Soil	ND<0.38
E4	Garage Area- BG-E4	Depth 4"	Depth 12"	Soil	ND<0.43
E5	Garage Area- BG-E5	Depth 4"	Depth 12"	Soil	ND<0.35
E6	Garage Area- BG-E6	Depth 4"	Depth 12"	Soil	ND<0.37
E7	Garage Area- BG-E7	Depth 4"	Depth 12"	Soil	ND<0.39
E8	20140801-KR E8A	Depth 4"	Depth 12"	Soil	ND<0.38
E8-DUP	20140801-KR E8B	Depth 4"- Duplicate	Depth 12"	Soil	ND<0.38
E9	20140801-KR E9	Depth 4"	Depth 12"	Soil	ND<0.36
E10	KR-E10	Depth 4"	Depth 12"	Soil	ND<0.39
E11	KR-E11	Depth 4"	Depth 12"	Soil	ND<0.38
E12	KR-E12	Depth 4"	Depth 12"	Soil	ND<0.4
E13	KR-E13	Depth 4"	Depth 12"	Soil	ND<0.37
F1	Garage Area- BG-F1	Depth 4"	Depth 12"	Soil	ND<0.4
F2	Garage Area- BG-F2	Depth 4"	Depth 12"	Soil	ND<0.37
F3	Garage Area- BG-F3	Depth 4"	Depth 12"	Soil	ND<0.38
F4	Garage Area- BG-F4	Depth 4"	Depth 12"	Soil	ND<0.37
F5	Garage Area- BG-F5	Depth 4"	Depth 12"	Soil	ND<0.39
F6	Garage Area- BG-F6	Depth 4"	Depth 12"	Soil	ND<0.36
F7	Garage Area- BG-F7	Depth 4"	Depth 12"	Soil	ND<0.44
F8	20140801-KR F8	Depth 4"	Depth 12"	Soil	ND<0.38
F9	20140801-KR F9	Depth 4"	Depth 12"	Soil	ND<0.38
F10	KR-F10	Depth 4"	Depth 12"	Soil	ND<0.37
F11	KR-F11	Depth 4"	Depth 12"	Soil	ND<0.41
F12	KR-F12	Depth 4"	Depth 12"	Soil	ND<0.38
F13	KR-F13	Depth 4"	Depth 12"	Soil	ND<0.37
G1	Garage Area- BG-G1	Depth 4"	Depth 12"	Soil	ND<0.35
G2	Garage Area- BG-G2A	Depth 4"	Depth 12"	Soil	ND<0.41
G2-DUP	Garage Area- BG-G2B	Depth 4"- Duplicate	Depth 12"	Soil	ND<0.43
G3	Garage Area- BG-G3	Depth 4"	Depth 12"	Soil	ND<0.41
G4	Garage Area- BG-G4	Depth 4"	Depth 12"	Soil	ND<0.37
G5	Garage Area- BG-G5	Depth 4"	Depth 12"	Soil	ND<0.37



Grid Location	Sample ID	Sample Location	Excavated Depth	Material	Results (mg/kg)
G6	Garage Area- BG-G6	Depth 4"	Depth 12"	Soil	ND<0.36
G7	Garage Area- BG-G7	Depth 4"	Depth 12"	Soil	ND<0.37
G8	20140801-KR G8	Depth 4"	Depth 12"	Soil	ND<0.37
G9	20140801-KR G9	Depth 4"	Depth 12"	Soil	ND<0.4
G10	KR-G10	Depth 4"	Depth 12"	Soil	ND<0.36
G11	KR-G11	Depth 4"	Depth 12"	Soil	ND<0.35
G12	KR-G12	Depth 4"	Depth 12"	Soil	ND<0.39
G13	KR-G13	Depth 4"	Depth 12"	Soil	ND<0.37
H1	Garage Area- BG-H1	Depth 4"	Depth 12"	Soil	ND<0.31
Н2	Garage Area- BG-H2	Depth 4"	Depth 12"	Soil	0.76 RL- 0.36
Н2	KR-H2	Depth 4" Resample	Depth 18"	Soil	ND<0.4
Н3	Garage Area- BG-H3	Depth 4"	Depth 12"	Soil	ND<0.4
H4	Garage Area- BG-H4	Depth 4"	Depth 12"	Soil	ND<0.39
H5	Garage Area- BG-H5	Depth 4"	Depth 12"	Soil	ND<0.41
H6	Garage Area- BG-H6	Depth 4"	Depth 12"	Soil	ND<0.38
H7	Garage Area- BG-H7	Depth 4"	Depth 12"	Soil	ND<0.39
Н8	20140801-KR H8	Depth 4"	Depth 12"	Soil	ND<0.38
Н9	20140801-KR H9A	Depth 4"	Depth 12"	Soil	ND<0.37
H9-DUP	20140801-KR H9B	Depth 4"- Duplicate	Depth 12"	Soil	ND<0.37
H10	KR-H10	Depth 4"	Depth 12"	Soil	ND<0.41
H11	KR-H11	Depth 4"	Depth 12"	Soil	ND<0.41
H12	KR-H12	Depth 4"	Depth 12"	Soil	ND<0.38
H13	KR-H13	Depth 4"	Depth 12"	Soil	ND<0.35
I1	Garage Area- BG-I1	Depth 4"	Depth 12"	Soil	ND<0.34
I2	Garage Area- BG-I2	Depth 4"	Depth 12"	Soil	ND<0.34
I3	Garage Area- BG-I3	Depth 4"	Depth 12"	Soil	ND<0.34
I4	Garage Area- BG-I4	Depth 4"	Depth 12"	Soil	0.43 RL- 0.36
I4	KR-I4	Depth 4"- Resample	Depth 18"	Soil	ND<0.37
I5	Garage Area- BG-I5	Depth 4"	Depth 12"	Soil	ND<0.4
16	Garage Area- BG-I6	Depth 4"	Depth 12"	Soil	ND<0.38
I7	Garage Area- BG-I7	Depth 4"	Depth 12"	Soil	ND<0.37
18	20140801-KR I8	Depth 4"	Depth 12"	Soil	ND<0.37
I9	20140801-KR I9	Depth 4"	Depth 12"	Soil	ND<0.37
I10	KR-I10	Depth 4"	Depth 12"	Soil	ND<0.36
I11	KR-I11	Depth 4"	Depth 12"	Soil	ND<0.36
I12	KR-I12	Depth 4"	Depth 12"	Soil	ND<0.36



Grid Location	Sample ID	Sample Location	Excavated Depth	Material	Results (mg/kg)
I13	KR-I13	Depth 4"	Depth 12"	Soil	ND<0.37
J1	Garage Area- BG-J1	Depth 4"	Depth 12"	Soil	ND<0.34
J2	Garage Area- BG-J2	Depth 4"	Depth 12"	Soil	ND<0.34
J3	Garage Area- BG-J3A	Depth 4"	Depth 12"	Soil	ND<0.39
J3-DUP	Garage Area- BG-J3B	Depth 4"	Depth 12"	Soil	ND<0.38
J4	Garage Area- BG-J4	Depth 4"	Depth 12"	Soil	ND<0.38
J5	Garage Area- BG-J5	Depth 4"	Depth 12"	Soil	0.39 RL- 0.37
J5	KR-J5	Depth 4"- Resample	Depth 18"	Soil	ND<0.38
J6	Garage Area- BG-J6	Depth 4"	Depth 12"	Soil	ND<0.41
J7	Garage Area- BG-J7	Depth 4"	Depth 12"	Soil	1.6 RL= 0.36
Ј7	KR-J7	Depth 4"- Resample	Depth 18"	Soil	ND<0.36
J8	20140801-KR J8	Depth 4"	Depth 12"	Soil	0.72 RL- 0.36
Ј8	081514-KN-05-J8	Depth 4"- Resample	Depth 24"	Soil	ND<0.39
Ј9	20140801-KR J9	Depth 4"	Depth 12"	Soil	ND<0.36
J10	KR-J10	Depth 4"	Depth 12"	Soil	ND<0.36
J11	KR-J11	Depth 4"	Depth 12"	Soil	ND<0.36
J12	KR-J12	Depth 4"	Depth 12"	Soil	0.52 RL- 0.38
J12	081514-KN-06-J12	Depth 4" Resample	Depth 24"	Soil	ND<0.41
J13	KR-J13	Depth 4"	Depth 12"	Soil	1.8 RL- 0.36
J13	081514-KN-07-J13	Depth 4"- Resample	Depth 24"	Soil	ND<0.42
K1	Garage Area- BG-K1	Depth 4"	Depth 12"	Soil	ND<0.34
K2	Garage Area- BG-K2	Depth 4"	Depth 12"	Soil	ND<0.32
K3	Garage Area- BG-K3	Depth 4"	Depth 12"	Soil	ND<0.34
K4	Garage Area- BG-K4	Depth 4"	Depth 12"	Soil	ND<0.42
K5	Garage Area- BG-K5	Depth 4"	Depth 12"	Soil	ND<0.37
K6	Garage Area- BG-K6	Depth 4"	Depth 12"	Soil	ND<0.38
K7	Garage Area- BG-K7	Depth 4"	Depth 12"	Soil	ND<0.39
K8	20140801-KR K8	Depth 4"	Depth 12"	Soil	ND<0.35
K9	20140801-KR K9	Depth 4"	Depth 12"	Soil	ND<0.35
K10	KR-K10A	Depth 4"	Depth 12"	Soil	ND<0.39
K10-DUP	KR-K10B	Depth 4"- Duplicate	Depth 12"	Soil	ND<0.37
K11	KR-K11	Depth 4"	Depth 12"	Soil	ND<0.37



Grid Location	Sample ID	Sample Location	Excavated Depth	Material	Results (mg/kg)
K12	KR-K12	Depth 4"	Depth 12"	Soil	ND<0.37
K13	KR-K13	Depth 4"	Depth 12"	Soil	ND<0.35
L1	Garage Area- BG-L1	Depth 4"	Depth 12"	Soil	ND<0.34
L2	Garage Area- BG-L2	Depth 4"	Depth 12"	Soil	ND<0.34
L3	Garage Area- BG-L3	Depth 4"	Depth 12"	Soil	0.47 RL- 0.37
L3	KR-L3	Depth 4"- Resample	Depth 18"	Soil	ND<0.36
L4	Garage Area- BG-L4	Depth 4"	Depth 12"	Soil	ND<0.43
L5	Garage Area- BG-L5	Depth 4"	Depth 12"	Soil	ND<0.34
L6	Garage Area- BG-L6	Depth 4"	Depth 12"	Soil	ND<0.4
L7	Garage Area- BG-L7	Depth 4"	Depth 12"	Soil	ND<0.4
L8	20140801-KR L8	Depth 4"	Depth 12"	Soil	ND<0.37
L9	20140801-KR L9	Depth 4"	Depth 12"	Soil	ND<0.36
L10	KR-L10	Depth 4"	Depth 12"	Soil	ND<0.37
L11	KR-L11	Depth 4"	Depth 12"	Soil	ND<0.36
L12	KR-L12	Depth 4"	Depth 12"	Soil	ND<0.36
L13	KR-L13	Depth 4"	Depth 12"	Soil	3.2 RL- 0.36
L13	081514-KN-08-L13	Depth 4"- Resample	Depth 24"	Soil	0.45 RL- 0.4
M1	Garage Area- BG-M1	Depth 4"	Depth 12"	Soil	ND<0.34
M2	Garage Area- BG-M2	Depth 4"	Depth 12"	Soil	ND<0.34
M3	Garage Area- BG-M3	Depth 4"	Depth 12"	Soil	ND<0.38
M4	Garage Area- BG-M4B	Depth 4"	Depth 12"	Soil	ND<0.35
M4-DUP	Garage Area- BG-M4A	Depth 4"- Duplicate	Depth 12"	Soil	ND<0.34
M5	Garage Area- BG-M5	Depth 4"	Depth 12"	Soil	ND<0.43
M6	Garage Area- BG-M6	Depth 4"	Depth 12"	Soil	ND<0.4
M7	Garage Area- BG-M7	Depth 4"	Depth 12"	Soil	ND<0.39
M8	20140801-KR M8	Depth 4"	Depth 12"	Soil	ND<0.37
M9	20140801-KR M9	Depth 4"	Depth 12"	Soil	ND<0.37
M10	KR-M10	Depth 4"	Depth 12"	Soil	0.54 RL- 0.38
M10	081514-KN-09-M10	Depth 4"- Resample	Depth 24"	Soil	ND<0.38
M11	KR-M11	Depth 4"	Depth 12"	Soil	ND<0.36
M12	KR-M12	Depth 4"	Depth 12"	Soil	ND<0.38
M13	KR-M13	Depth 4"	Depth 12"	Soil	ND<0.37
N1	Garage Area- BG-N1	Depth 4"	Depth 12"	Soil	ND<0.34



Grid Location	Sample ID	Sample Location	Excavated Depth	Material	Results (mg/kg)
N2	Garage Area- BG-N2	Depth 4"	Depth 12"	Soil	ND<0.34
N3	Garage Area- BG-N3	Depth 4"	Depth 12"	Soil	ND<0.35
N4	Garage Area- BG-N4	Depth 4"	Depth 12"	Soil	ND<0.42
N5	Garage Area- BG-N5	Depth 4"	Depth 12"	Soil	ND<0.36
N6	Garage Area- BG-N6	Depth 4"	Depth 12"	Soil	ND<0.36
N7	Garage Area- BG-N7	Depth 4"	Depth 12"	Soil	ND<0.38
N8	20140801-KR N8	Depth 4"	Depth 12"	Soil	ND<0.39
N9	20140801-KR N9	Depth 4"	Depth 12"	Soil	ND<0.39
N10	KR-N10	Depth 4"	Depth 12"	Soil	ND<0.39
N11	KR-N11A	Depth 4"	Depth 12"	Soil	ND<0.36
N11-DUP	KR-N11B	Depth 4"- Duplicate	Depth 12"	Soil	ND<0.36
O1	Garage Area- BG-O1	Depth 4"	Depth 12"	Soil	ND<0.34
O2	Garage Area- BG-O2	Depth 4"	Depth 12"	Soil	ND<0.36
O3	Garage Area- BG-O3	Depth 4"	Depth 12"	Soil	ND<0.36
O4	Garage Area- BG-O4	Depth 4"	Depth 12"	Soil	ND<0.39
O5	Garage Area- BG-O5	Depth 4"	Depth 12"	Soil	ND<0.37
O6	Garage Area- BG-O6	Depth 4"	Depth 12"	Soil	ND<0.38
О7	Garage Area- BG-O7	Depth 4"	Depth 12"	Soil	ND<0.37
О8	20140801-KR O8	Depth 4"	Depth 12"	Soil	ND<0.38
O9	20140801-KR O9	Depth 4"	Depth 12"	Soil	ND<0.37
O10	KR-O10	Depth 4"	Depth 12"	Soil	ND<0.36
O11	KR-O11	Depth 4"	Depth 12"	Soil	ND<0.37
P1	Garage Area- BG-P1	Depth 4"	Depth 12"	Soil	ND<0.33
P2	Garage Area- BG-P2	Depth 4"	Depth 12"	Soil	ND<0.35
Р3	Garage Area- BG-P3	Depth 4"	Depth 12"	Soil	ND<0.38
P4	Garage Area- BG-P4	Depth 4"	Depth 12"	Soil	ND<0.43
P5	Garage Area- BG-P5	Depth 4"	Depth 12"	Soil	ND<0.4
P6	Garage Area- BG-P6	Depth 4"	Depth 12"	Soil	ND<0.41
P7	Garage Area- BG-P7	Depth 4"	Depth 12"	Soil	ND<0.37
P8	20140801-KR P8	Depth 4"	Depth 12"	Soil	ND<0.4
P9	20140801-KR P9A	Depth 4"	Depth 12"	Soil	ND<0.37
P9-DUP	20140801-KR P9B	Depth 4"- Duplicate	Depth 12"	Soil	ND<0.37
P10	KR-P10	Depth 4"	Depth 12"	Soil	ND<0.37
P11	KR-P11	Depth 4"	Depth 12"	Soil	ND<0.38



Grid Location	Sample ID	Sample Location	Excavated Depth	Material	Results (mg/kg)
Q1	Garage Area- BG-Q1	Depth 4"	Depth 12"	Soil	ND<0.36
Q2	Garage Area- BG-Q2	Depth 4"	Depth 12"	Soil	ND<0.38
Q3	Garage Area- BG-Q3	Depth 4"	Depth 12"	Soil	ND<0.37
Q4	Garage Area- BG-Q4	Depth 4"	Depth 12"	Soil	ND<0.37
Q5	Garage Area- BG-Q5	Depth 4"	Depth 12"	Soil	ND<0.34
Q6	Garage Area- BG-Q6	Depth 4"	Depth 12"	Soil	ND<0.36
Q7	Garage Area- BG-Q7	Depth 4"	Depth 12"	Soil	ND<0.38
Q8	20140801-KR Q8	Depth 4"	Depth 12"	Soil	ND<0.36
Q9	20140801-KR Q9	Depth 4"	Depth 12"	Soil	ND<0.36
Q10	KR-Q10	Depth 4"	Depth 12"	Soil	ND<0.37
Q11	KR-Q11	Depth 4"	Depth 12"	Soil	ND<0.4
Q12	KR-Q12	Depth 4"	Depth 12"	Soil	ND<0.36
Q13	KR-Q13	Depth 4"	Depth 12"	Soil	ND<0.36
R1	Garage Area- BG-R1	Depth 4"	Depth 12"	Soil	ND<0.35
R2	Garage Area- BG-R2	Depth 4"	Depth 12"	Soil	ND<0.36
R3	Garage Area- BG-R3	Depth 4"	Depth 12"	Soil	ND<0.36
R4	Garage Area- BG-R4	Depth 4"	Depth 12"	Soil	ND<0.36
R5	Garage Area- BG-R5	Depth 4"	Depth 12"	Soil	ND<0.42
R6	Garage Area- BG-R6	Depth 4"	Depth 12"	Soil	ND<0.36
R7	Garage Area- BG-R7	Depth 4"	Depth 12"	Soil	ND<0.36
R8	20140801-KR R8	Depth 4"	Depth 12"	Soil	ND<0.45
R9	20140801-KR R9	Depth 4"	Depth 12"	Soil	ND<0.36
R10	KR-R10	Depth 4"	Depth 12"	Soil	ND<0.36
R11	KR-R11	Depth 4"	Depth 12"	Soil	0.74 RL- 0.36
R11	081514-KN-10-R11	Depth 4" Resample	Depth 24"	Soil	ND<0.45
R12	KR-R12	Depth 4"	Depth 12"	Soil	0.65 RL- 0.37
R12	081514-KN-11-R12	Depth 4" Resample	Depth 24"	Soil	ND<0.39
R13	KR-R13	Depth 4"	Depth 12"	Soil	ND<0.36
S1	Garage Area- BG-S1	Depth 4"	Depth 12"	Soil	ND<0.35
S2	Garage Area- BG-S2	Depth 4"	Depth 12"	Soil	ND<0.36
S3	Garage Area- BG-S3	Depth 4"	Depth 12"	Soil	ND<0.4
S4	Garage Area- BG-S4	Depth 4"	Depth 12"	Soil	ND<0.36
S5	Garage Area- BG-S5	Depth 4"	Depth 12"	Soil	ND<0.36
S6	Garage Area- BG-S6	Depth 4"	Depth 12"	Soil	ND<0.37
S7	Garage Area- BG-S7	Depth 4"	Depth 12"	Soil	ND<0.37
S8	20140801-KR S8	Depth 4"	Depth 12"	Soil	ND<0.37



Grid Location	Sample ID	Sample Location	Excavated Depth	Material	Results (mg/kg)
S9	20140801-KR S9	Depth 4"	Depth 12"	Soil	ND<0.35
S10	KR-S10	Depth 4"	Depth 12"	Soil	ND<0.37
S11	KR-S11	Depth 4"	Depth 12"	Soil	ND<0.36
S12	KR-S12A	Depth 4"	Depth 12"	Soil	0.41 RL- 0.36
S12	081514-KN-12-S12	Depth 4" Resample	Depth 24"	Soil	ND<0.41
S12-DUP	KR-S12B	Depth 4"- Duplicate	Depth 12"	Soil	ND<0.36
S13	KR-S13	Depth 4"	Depth 12"	Soil	ND<0.37
T1	Garage Area- BG-T1	Depth 4"	Depth 12"	Soil	ND<0.34
T2	Garage Area- BG-T2	Depth 4"	Depth 12"	Soil	ND<0.37
Т3	Garage Area- BG-T3	Depth 4"	Depth 12"	Soil	ND<0.38
T4	Garage Area- BG-T4	Depth 4"	Depth 12"	Soil	ND<0.37
T5	Garage Area- BG-T5	Depth 4"	Depth 12"	Soil	ND<0.36
T6	Garage Area- BG-T6	Depth 4"	Depth 12"	Soil	ND<0.37
T7	Garage Area- BG-T7	Depth 4"	Depth 12"	Soil	ND<0.37
Т8	20140801-KR T8	Depth 4"	Depth 12"	Soil	ND<0.36
Т9	20140801-KR T9	Depth 4"	Depth 12"	Soil	ND<0.39
T10	KR-T10	Depth 4"	Depth 12"	Soil	ND<0.37
T11	KR-T11	Depth 4"	Depth 12"	Soil	ND<0.37
T12	KR-T12	Depth 4"	Depth 12"	Soil	ND<0.34
T13	KR-T13	Depth 4"	Depth 12"	Soil	0.87 RL- 0.35
T13	081514-KN-13-T13	Depth 4" Resample	Depth 24"	Soil	ND<0.37
T13-DUP	081514-KN-24-DUP	Depth 4"- Duplicate	Depth 24"	Soil	ND<0.38
U1	Garage Area- BG-U1	Depth 4"	Depth 12"	Soil	ND<0.35
U2	Garage Area- BG-U2	Depth 4"	Depth 12"	Soil	ND<0.36
U3	Garage Area- BG-U3	Depth 4"	Depth 12"	Soil	ND<0.41
U4	Garage Area- BG-U4	Depth 4"	Depth 12"	Soil	ND<0.37
U5	Garage Area- BG-U5	Depth 4"	Depth 12"	Soil	ND<0.41
U6	Garage Area- BG-U6A	Depth 4"	Depth 12"	Soil	ND<0.36
U6-DUP	Garage Area- BG-U6B	Depth 4"- Duplicate	Depth 12"	Soil	ND<0.37
U7	Garage Area- BG-U7	Depth 4"	Depth 12"	Soil	ND<0.4
U8	20140801-KR U8	Depth 4"	Depth 12"	Soil	ND<0.41
U9	20140801-KR U9	Depth 4"	Depth 12"	Soil	ND<0.37
U10	KR-U10	Depth 4"	Depth 12"	Soil	ND<0.37
U11	KR-U11	Depth 4"	Depth 12"	Soil	ND<0.38



Grid Location	Sample ID	Sample Location	Excavated Depth	Material	Results (mg/kg)
U12	KR-U12	Depth 4"	Depth 12"	Soil	ND<0.38
U13	KR-U13	Depth 4"	Depth 12"	Soil	ND<0.35
V1	Garage Area- BG-V1	Depth 4" Resample	Depth 12"	Soil	0.44 RL- 0.36
V1	KR-V1	Depth 4"	Depth 18"	Soil	ND<0.37
V2	Garage Area- BG-V2	Depth 4"	Depth 12"	Soil	ND<0.38
V3	Garage Area- BG-V3	Depth 4"	Depth 12"	Soil	ND<0.37
V4	Garage Area- BG-V4	Depth 4"	Depth 12"	Soil	ND<0.38
V5	Garage Area- BG-V5	Depth 4"	Depth 12"	Soil	ND<0.36
V6	Garage Area- BG-V6	Depth 4"	Depth 12"	Soil	ND<0.38
V7	Garage Area- BG-V7	Depth 4"	Depth 12"	Soil	MD<0.36
V8	20140801-KR V8	Depth 4"	Depth 12"	Soil	ND<0.38
V9	20140801-KR V9	Depth 4"	Depth 12"	Soil	ND<0.37
V10	KR-V10	Depth 4"	Depth 12"	Soil	ND<0.4
V11	KR-V11	Depth 4"	Depth 12"	Soil	ND<0.38
V12	KR-V12	Depth 4"	Depth 12"	Soil	ND<0.34
V13	KR-V13A	Depth 4"	Depth 12"	Soil	0.76 RL- 0.38
V13-DUP	KR-V13B	Depth 4"- Duplicate	Depth 12"	Soil	0.64 RL- 0.37
V13	081514-KN-14-V13	Depth 4"- Resample	Depth 24"	Soil	ND<0.39
W1	Garage Area- BG-W1	Depth 4"	Depth 12"	Soil	ND<0.35
W2	Garage Area- BG-W2	Depth 4"	Depth 12"	Soil	ND<0.38
W3	Garage Area- BG-W3	Depth 4"	Depth 12"	Soil	ND<0.34
W4	Garage Area- BG-W4	Depth 4"	Depth 12"	Soil	ND<0.35
W5	Garage Area- BG-W5	Depth 4"	Depth 12"	Soil	ND<0.38
W6	Garage Area- BG-W6	Depth 4"	Depth 12"	Soil	ND<0.35
W7	Garage Area- BG-W7	Depth 4"	Depth 12"	Soil	ND<0.36
W8	20140801-KR W8	Depth 4"	Depth 12"	Soil	ND<0.35
W9	20140801-KR W9	Depth 4"	Depth 12"	Soil	ND<0.36
W10	KR-W10	Depth 4"	Depth 12"	Soil	0.77 RL- 0.37
W10	081514-KN-15-W10	Depth 4"- Resample	Depth 24"	Soil	ND<0.35
W11	KR-W11	Depth 4"	Depth 12"	Soil	ND<0.38
W12	KR-W12	Depth 4"	Depth 12"	Soil	ND<0.4
W13	KR-W13	Depth 4"	Depth 12"	Soil	0.44 RL- 0.35
W13	081514-KN-16-W13	Depth 4"- Resample	Depth 24"	Soil	ND<0.43
X1	Garage Area- BG-X1	Depth 4"	Depth 12"	Soil	ND<0.34



Grid Location	Sample ID	Sample Location	Excavated Depth	Material	Results (mg/kg)
X2	Garage Area- BG-X2	Depth 4"	Depth 12"	Soil	ND<0.36
X3	Garage Area- BG-X3	Depth 4"	Depth 12"	Soil	ND<0.34
X4	Garage Area- BG-X4	Depth 4"	Depth 12"	Soil	ND<0.34
X5	Garage Area- BG-X5	Depth 4"	Depth 12"	Soil	0.51 RL- 0.35
X5	KR-X5	Depth 4"- Resample	Depth 18"	Soil	ND<0.37
X6	Garage Area- BG-X6	Depth 4"	Depth 12"	Soil	ND<0.33
X7	Garage Area- BG-X7A	Depth 4"	Depth 12"	Soil	ND<0.37
X7-DUP	Garage Area- BG-X7B	Depth 4"- Duplicate	Depth 12"	Soil	ND<0.34
X8	20140801-KR X8	Depth 4"	Depth 12"	Soil	ND<0.41
X9	20140801-KR X9	Depth 4"	Depth 12"	Soil	ND<0.38
X10	KR-X10	Depth 4"	Depth 12"	Soil	ND<0.38
X11	KR-X11	Depth 4"	Depth 12"	Soil	ND<0.39
X12	KR-X12	Depth 4"	Depth 12"	Soil	ND<0.4
X13	KR-X13	Depth 4"	Depth 12"	Soil	ND<0.37
Y1	Garage Area- BG-Y1	Depth 4"	Depth 12"	Soil	ND<0.35
Y2	Garage Area- BG-Y2	Depth 4"	Depth 12"	Soil	ND<0.36
Y3	Garage Area- BG-Y3	Depth 4"	Depth 12"	Soil	0.36 RL- 0.36
Y3	Y3A	Depth 4"	Depth 18"	Soil	0.56 RL- 0.36
Y3	Y3B-DUP	Depth 4"	Depth 18"	Soil	ND<0.36
Y4	Garage Area- BG-Y4	Depth 4"	Depth 12"	Soil	ND<0.36
Y5	Garage Area- BG-Y5	Depth 4"	Depth 12"	Soil	ND<0.35
Y6	Garage Area- BG-Y6	Depth 4"	Depth 12"	Soil	ND<0.36
Y7	Garage Area- BG-Y7	Depth 4"	Depth 12"	Soil	1.1 RL- 0.38
Y7	081214-BG-Y7	Depth 4"- Resample	Depth 18"	Soil	ND<0.4
Y8	20140801-KR Y8	Depth 4"	Depth 12"	Soil	0.56 RL- 0.37
Y8	081514-KN-17-Y8	Depth 4"- Resample	Depth 24"	Soil	ND<0.4
Y9	20140801-KR Y9	Depth 4"	Depth 12"	Soil	ND<0.39
Y10	KR-Y10	Depth 4"	Depth 12"	Soil	ND<0.37
Y11	KR-Y11	Depth 4"	Depth 12"	Soil	0.48 RL- 0.42
Y11	081514-KN-18-Y11	Depth 4" Resample	Depth 24"	Soil	ND<0.4
Y12	KR-Y12	Depth 4"	Depth 12"	Soil	ND<0.37



Grid Location	Sample ID	Sample Location	Excavated Depth	Material	Results (mg/kg)
Y13	KR-Y13	Depth 4"	Depth 12"	Soil	0.71 RL- 0.36
Y13	081514-KN-19-Y13	Depth 4"- Resample	Depth 24"	Soil	ND<0.45
Z1	Garage Area- BG-Z1A	Depth 4"	Depth 12"	Soil	ND<0.34
Z1-DUP	Garage Area- BG-Z1B	Depth 4"- Duplicate	Depth 12"	Soil	ND<0.34
Z2	Garage Area- BG-Z2	Depth 4"	Depth 12"	Soil	ND<0.35
Z3	Garage Area- BG-Z3	Depth 4"	Depth 12"	Soil	ND<0.36
Z4	Garage Area- BG-Z4	Depth 4"	Depth 12"	Soil	0.52 RL- 0.36
Z4	081214-BG-Z4	Depth 4"	Depth 18"	Soil	0.52 RL- 0.36
Z4	081514-KN-20-Z4	Depth 4"- Resample	Depth 30"	Soil	ND<0.41
Z5	Garage Area- BG-Z5	Depth 4"	Depth 12"	Soil	0.62 RL- 0.37
Z5	081214-BG-Z5	Depth 4"	Depth 18"	Soil	0.53 RL- 0.36
Z5	081514-KN-21-Z5	Depth 4"- Resample	Depth 30"	Soil	ND<0.44
Z6	Garage Area- BG-Z6	Depth 4"	Depth 12"	Soil	ND<0.34
<b>Z</b> 7	Garage Area- BG-Z7	Depth 4"	Depth 12"	Soil	ND<0.37
Z8	20140801-KR Z8	Depth 4"	Depth 12"	Soil	ND<0.37
<b>Z</b> 9	20140801-KR Z9	Depth 4"	Depth 12"	Soil	1.6 RL- 0.35
Z9	081514-KN-22-Z9	Depth 4"- Resample	Depth 24"	Soil	ND<0.41
Z10	KR-Z10	Depth 4"	Depth 12"	Soil	0.43 RL- 0.36
Z10	081514-KN-23-Z10	Depth 4" Resample	Depth 24"	Soil	ND<0.4
Z11	KR-Z11	Depth 4"	Depth 12"	Soil	ND<0.42
Z12	KR-Z12	Depth 4"	Depth 12"	Soil	ND<0.36
Z13	KR-Z13	Depth 4"	Depth 12"	Soil	ND<0.36
Waste profile	090214-BG-01	Excavated So	oil Stockpile	Soil	ND<0.36
Waste profile	090214-BG-02	Excavated So	oil Stockpile	Soil	1.2 RL-0.34
Waste profile	090214-BG-03	Excavated So	oil Stockpile	Soil	ND<0.36

ND = None Detected; RL = Reporting Limit

The soil analytical reports for the 1.5 meter sampling grid at the Former Maintenance Garage Area and sample locations are also provided in *Appendix D*.



# 3.5 Post-Construction Verification Sampling-SIDP Modification Scope

The SIDP approved for this project specified for interior floor wipe sampling and air sampling for PCBs after PCB Remediation completion. EnviroScience submitted a modification memo stating that due to simultaneous asbestos abatement and PCB remediation work the entire building to remain for renovation as the school was completely open to the elements, therefore the ability to conduct floor surface wipes and air sampling within closed interior spaces was not possible.

The modification addresses conducting wipe samples on floor surfaces and air sampling after renovation has been completed and was approved by EPA. The School is still undergoing renovation and is scheduled for completion in the fall of 2015. EnviroScience will conduct the sampling prior to occupancy and forward the results under separate cover to the EPA.

This report was prepared by Environmental Technician Bruce Gregoire.

Reviewed by:

Kathleen C. Pane Project Manager Robert L. May Jr.

President



# Appendix A

Self-Implementing On-site Clean-up and Disposal Plan (Notification) and Correspondence



#### MEMORANDUM

TO: Kimberly N. Tisa, PCB Coordinator

Remediation & Restoration II Branch/RCRA Corrective Action Section

FROM: Kathleen C. Pane, Project Manager

**DATE**: March 12, 2014

RE: Self-Implementing On-Site Cleanup and Disposal Plan (SIDP)

176 Cumberland Avenue, Wethersfield, Connecticut

Fuss & O'Neill EnviroScience on behalf of Capital Region Education Council (CREC) would like to modify the Polychlorinated biphenyl (PCB) Cleanup and Disposal Approval plan under 40 CFR § 761.61(a) and § 761.79(h) approved on March 27, 2013. Our modification addresses two items:

1. Modification to air and wipe verification sampling plan and

Removal and disposal of additional identified PCB impacted building materials (PCB Remediation Waste).

#### Item 1

In the SIDP Section 3.3 Verification Sampling Plan, Part 3.3.4 Interior Floor Surfaces it states that after work completion and cleaning of the containment barriers, EnviroScience shall collect wipe samples on finish floor surfaces for verification of cleaning. Part 3.3.5 Interior Air Sampling states after completion of work and prior to removal of containment barriers air samples shall be conducted.

During and after the removal of exterior window systems interior portions of the building were simultaneously undergoing asbestos abatement and/or demolition. The entire building has been gutted and completely open to the elements with only concrete slab, structural members and corrugated decking remaining. The ability to conduct wipe samples on any finished floor surface and within defined interior spaces was not possible during the work sequence.

Fuss & O'Neill will perform wipe samples on floor surfaces and air sampling after renovation has been completed and new interior finishes are installed in the north main building. Samples will be conducted every 2,500 SF. Sampling will represent conditions of the structure prior to occupancy.

It is estimated that 10 wipe and air samples will be collected on each floor (first, second and third). 30 wipe samples 2 duplicates and 2 blanks for a total of 34 wipe samples will be submitted. 30 air samples, 1 duplicate and a reference sample will submitted for a total of 32 air samples.

#### Item 2

The project is currently undergoing renovation/demolition and remediation. As part of our due diligence services, Fuss & O'Neill reviewed previous environmental investigations conducted at the site.



MEMO - Kimberly N. Tisa March 12, 2014 Page 2 of 3

Based on a Phase I Environmental Site Assessment (ESA) performed by HRP Associates, Inc. dated November 2011 several areas of environmental concern (AOECs) were identified.

AOECs identified by HRP were addressed during Phase II investigations with the exception of two AOECs which include (1) the former hazardous waste storage area (HWSA) and (2) former transformer vault. Fuss & O'Neill investigated these areas.

During the north garage building slab demolition it was discovered that the original building slab was located underneath a new slab and this original slab was identified as an additional AOEC. This slab was investigated by HRP Associates (HRP) of Farmington, Connecticut.

For the purposes of this memorandum we are identifying each area as follows:

AOEC #1-Former Hazardous Waste Storage Area (HWSA); AOEC #2-Former Transformer Vault AOEC #3-Former Garage Slab

Background and testing results regarding each AOEC is provided below. For each AOEC we are assuming the existence of a former source of PCBs >50 ppm.

#### AOEC #1-Former HWSA

On August 9, 2013 Fuss & O'Neill performed a visual evaluation of the concrete floor in the former HWSA. Staining was observed in the western portion of the concrete pad. Fuss & O'Neill collected concrete chip samples designated as CC-1, CC-2 and CC-3. The samples were analyzed for multiple constituents, including PCBs. Samples were analyzed at Phoenix Environmental Laboratories, Inc. (Manchester, CT). According to laboratory analytical results PCBs were detected in all three samples. Concentrations were reported at 57 ppm in sample CC-1, 18 ppm in sample CC-2 and 31 ppm in sample CC-3.

The HWSA measures approximately 15-feet by 10-feet with an approximately 6-inch thick sealed concrete floor. The area is separate from the remainder of the facility with an exterior access door. All the wastes were removed from the area prior to concrete sampling.

Three soil samples were collected from underneath the concrete floor designated as HWSS-01, HWSS-02 and HWSS-03. The samples were analyzed for multiple constituents, including PCBs. PCBs were not detected in the soil samples collected.

We have proposed collecting additional samples of soil for PCB analysis per Subpart N. Sample collection will occur in the future when the slab has been removed. If PCBs are detected greater than 1 ppm then soils will be removed until post remediation verification sampling of <1 ppm in accordance with Sub-Part O is achieved. Soils will be disposed of as PCB Remediation Waste.



MEMO - Kimberly N. Tisa March 12, 2014 Page 3 of 3

The 150 square foot (SF) HWSA concrete slab will be removed and disposed of as PCB Remediation Waste and F003 hazardous waste due to detections of other constituents of concern and as part of hazardous waste storage closure in accordance with Connecticut Department of Energy and Environmental Protection (CTDEEP) regulations.

#### AOEC #2-Former Transformer Vault

On November 15, 2013 Fuss & O'Neill performed a visual assessment in the transformer vault. Two concrete chip samples (TVCS-01 and TVCS-02) were collected in areas of heavy staining. The samples were submitted for extractable total petroleum hydrocarbons (ETPH) and PCBs. PCBs were detected in the concrete samples greater than 1 ppm but less than 50 ppm.

The transformer was removed by Connecticut Light and Power (CL&P) prior to the assessment. The slab is approximately 20-feet by 10-feet. The thickness of the slab is unknown at this time.

The approximate 200 square foot concrete vault slab will be disposed of as PCB Remediation Waste. We have proposed collecting samples of underlying soil for PCB analysis per Subpart N. Sample collection will occur in the future when the slab has been removed. If PCBs are detected greater than 1 ppm than soils will be removed until post remediation verification sampling of <1 ppm in accordance with Sub-Part O is achieved and soils will be disposed of as PCB Remediation Waste.

#### AOEC #3-Former Garage Slab

On November 26, 2013 HRP collected two composite waste characterization samples designated as CC-1 and CC-2. Each composite consisted of six sub-samples. Samples were analyzed at Connecticut Testing Laboratories, Inc. of Meriden, Connecticut. Sample CC-1 reported at 2.4 mg/kg and sample CC-2 reported at 2.5 mg/kg.

The 130-feet by 65-feet (8,840 SF) 4 inch thick concrete slab will be removed from slab and disposed of as PCB Remediation Waste. We have proposed collecting samples of soil for PCB analysis per Subpart N. Sample collection will occur in the future when the slab has been removed. If PCBs are detected greater than 1 ppm than soils will be removed until post remediation sampling of <1 ppm in accordance with Sub-Part O is achieved. Soils will be disposed of as PCB Remediation Waste.

Laboratory analytical results are attached for your review. Site plan (Figure 1) showing the three AOEC locations is attached.

We hope that EPA can approve this modification. Feel free to contact us should you have any questions and/or comments.

J:/A/AMEEM - AMENTA-EMMA ARCH TECTS, PC/176 CUMBERLAND AVENUE, WETHERSFIELD, CT/AMESTOOP1/CAD/BULDING AREA PLAN.dwg, 17X17 LANDSCAPE, 11/30/201 8:57:22 AM



#### Environmental Laboratories, Inc.

587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

August 20, 2013

FOR:

**Custody Information** 

Collected by:

Received by:

Analyzed by:

Attn: Ms Marilee Gonzalez

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix: **Location Code:**  SOLID

F&O-PCB

Rush Request: P.O.#:

Standard

20110979A3E aboratory Data

Date Time 08/09/13

9:10

08/09/13 13:45

SDG ID: GBF19153 Phoenix ID: BF19155

Project ID: Client ID:

176 CUMBERLAND AVE

472130809-3

Conacte chip sounds from Haz West stonge fromm

DL

SW

see "By" below

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Silver	< 0.31	0.31	mg/Kg	08/12/13	EK	SW6010
Arsenic	3.0	0.6	mg/Kg	08/12/13	EK	SW6010
3arium	43.9	0.31	mg/Kg	08/12/13	EK	SW6010
Cadmium	0.52	0.31	mg/Kg	08/12/13	EK	SW6010
Chromium	7.54	0.31	mg/Kg	08/12/13	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	08/13/13	RS	SW-7471
ead	138	3.1	mg/Kg	08/13/13	LK	SW6010
Selenium	< 1.3	1.3	mg/Kg	08/12/13	EK	SW6010
Percent Solid	97		%	08/09/13	W	E160.3
Soll Extraction SVOA PAH	Completed			08/09/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			08/09/13	SS/F	3545
Mercury Digestion	Completed			08/12/13	H/H	SW7471
otal Metals Digest	Completed			08/09/13	Z/AG	SW846 - 3050
leid Extraction	Completed			08/09/13		SW5035
Soxhlet Extraction for PCB	Completed		,	08/12/13	-/-	SW3540C
TPH by GC (Extractab	le Products	1				
Ext. Petroleum HC	2000	250	mg/Kg	08/12/13	JRB	CT ETPH/8015
dentification	**		mg/Kg	08/12/13	JRB	CT ETPH/8016
QA/QC Surrogates			77777			-4
% n-Pentacosane	Diluted Out		%	08/12/13	JRB	50 - 150 %
PCB (Soxhlet)						
PCB-1016	ND	6.9	mg/kg	08/16/13	AW	3540C/8082
PCB-1221	ND	6.9	mg/kg	08/16/13	AW	3540C/8082
PCB-1232	ND	6.9	mg/kg	08/16/13	AW	3540C/8082
PCB-1242	ND	6.9	mg/kg	08/16/13	AW	3540C/8082
PCB-1248	ND	6.9	mg/kg	08/16/13	AW	3540C/8082
PCB-1254	ND	6.9	mg/kg	08/16/13	AW	3540C/8082

Client ID: 472130809-3

Perameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
PCB-1260	57	6.9	mg/kg	08/16/13	AW	3540C/8082
PCB-1262	ND	6.9	mg/kg	08/18/13	AW	3540C/8082
PCB-1268	ND	6.9	mg/kg	08/16/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	Diluted Out		%	08/16/13	AW	30 - 150 %
% TCMX	Diluted Out		%	08/16/13	AW	30 - 150 %
Volatiles						
,1,1,2-Tetrachloroethane	ND	13	ug/Kg	08/13/13	R/J	SW8260
,1,1-Trichloroethane	ND	13	ug/Kg	08/13/13	R/J	SW8260
,1,2,2-Tetrachloroethane	ND	7.8	ug/Kg	08/13/13	RUJ	SW8260
,1,2-Trichloroethane	ND	13	ug/Kg	08/13/13	R/J	SW8260
,1-Dichloroethane	ND	13	ug/Kg	08/13/13	R/J	SW8260
,1-Dichloroethene	ND	13	ug/Kg	08/13/13	R/J	SW8260
1-Dichloropropene	ND	13	ug/Kg	08/13/13	R/J	SW8260
,2,3-Trichlorobenzene	ND	13	ug/Kg	08/13/13	R/J	SW8260
,2,3-Trichloropropane	ND	13	ug/Kg	08/13/13	R/J	SW8260
,2,4-Trichlorobenzene	ND	13	ug/Kg	08/13/13	R/J	SW8260
,2,4-Trimethylbenzene	950	260	ug/Kg	08/11/13	R/J	SW8260
,2-Dibromo-3-chloropropane	ND	13	ug/Kg	08/13/13	R/J	SW8260
,2-Dibromoethane	ND	13	ug/Kg	08/13/13	R/J	SW8260
2-Dichlorobenzene	- ND	13	ug/Kg	08/13/13	R/J	SW8260
,2-Dichloroethane	ND	13	ug/Kg	08/13/13	R/J	SW8260
,2-Dichloropropane	ND	13	ug/Kg	08/13/13	R/J	SW8260
3,5-Trimethylbenzene	260	13	ug/Kg	08/13/13	R/J	SW8260
,3-Dichlorobenzene	ND	13	ug/Kg	08/13/13	R/J	SW8260
,3-Dichloropropane	ND	13	ug/Kg	08/13/13	R/J	SW8260
4-Dichlorobenzene	ND	13	ug/Kg	08/13/13	R/J	SW8260
,2-Dichloropropane	ND	13	ug/Kg	08/13/13	R/J	SW8260
-Chlorotoluene	ND	13	ug/Kg	08/13/13	R/J	SW8260
-Hexanone	ND	65	ug/Kg	08/13/13	R/J	SW8260
-Isopropyttoluene	ND	13	ug/Kg	08/13/13	R/J	SW8260
-Chlorotoluene	ND	13	ug/Kg	08/13/13	R/J	SW8260
-Methyl-2-pentanone	ND	65	ug/Kg	08/13/13	R/J	SW8260
cetone	ND	78	ug/Kg	08/13/13	R/J	SW8260
crylonitrile	ND	13	ug/Kg	08/13/13	R/J	SW8260
enzene	ND	13	ug/Kg	08/13/13	R/J	SW8260
romobenzene	ND .	13	ug/Kg	08/13/13	R/J	SW8260
romochloromethane	ND	13	ug/Kg	08/13/13	R/J	SW8260
romodichloromethane	ND	13	ug/Kg	08/13/13	R/J	SW8260
romoform	ND	13	ug/Kg	08/13/13	R/J	SW8260
romomethane	ND	13	, ug/Kg	08/13/13	R/J	SW8260
arbon Disulfide	ND	13	ug/Kg	08/13/13	RJ	SW8260
arbon tetrachloride	ND	13	ug/Kg	08/13/13	R/J	SW8260
chlorobenzene	ND	13	ug/Kg	08/13/13	R/J	SW8260
hloroethane	ND	13	ug/Kg	08/13/13	R/J	SW8260
Chloroform	ND	13	ug/Kg	08/13/13	R/J	SW8260
Chloromethane	ND	13	ug/Kg	08/13/13	R/J	SW8260
ss-1,2-Dichloroethene	ND	13	ug/Kg	08/13/13	R/J	SW8260
sis-1,3-Dichloropropene	ND	13	ug/Kg	08/13/13	R/J	SW8260

Phoenix I.D.: BF19155 Client ID: 472130809-3 RL PQL Parameter Result Units Date/Time By Reference Dibromochloromethane ND 7.8 ug/Kg 08/13/13 SW8260 R/J Dibromomethane ND 13 SW8260 ug/Kg 08/13/13 R/J Dichlorodifluoromethane ND 13 SW8260 ug/Kg 08/13/13 R/J Ethylbenzene 40 13 ug/Kg 08/13/13 R/J SW8280 Hexachlorobutadiene ND 13 ug/Kg 08/13/13 RJ SW8260 Isopropylbenzene 22 13 ug/Kg 08/13/13 R/J SW8280 m&p-Xylene 200 13 SW8260 ug/Kg 08/13/13 R/J Methyl Ethyl Ketone ND 78 ug/Kg 08/13/13 R/J SW8260 Methyl t-butyl ether (MTBE) ND 26 ug/Kg 08/13/13 RJ SW8260 Methylene chloride 13 ND ug/Kg 08/13/13 R/J SW8260 Naphthalene 430 260 ug/Kg SW8260 08/11/13 R/J n-Butybenzene 13 64 ug/Kg 08/13/13 R/J SW8280 n-Propylbenzene 110 13 ug/Kg 08/13/13 R/J SW8260 o-Xylene 110 13 SW8260 ug/Kg 08/13/13 R/J 14 13 p-Isopropyltoluene ug/Kg SW8260 08/13/13 R/J sec-Butylbenzene ND 13 ug/Kg 08/13/13 R/J SW8260 Styrene ND 13 ug/Kg 08/13/13 R/J SW8260 tert-Butylbenzene ND 13 ug/Kg 08/13/13 SW8260 RU Tetrachloroethene ND 13 SW8260 ug/Kg 08/13/13 RJ ND Tetrahydrofuran (THF) 26 SW8260 ug/Kg 08/13/13 R/J Toluene 16 13 ug/Kg 08/13/13 R/J SW8260 **Total Xylenes** 310 13 ug/Kg 08/13/13 RJ SW8260 trans-1,2-Dichloroethene ND 13 ug/Kg 08/13/13 R/J SW8260 trans-1,3-Dichloropropene ND 13 ug/Kg 08/13/13 R/J SW8260 trans-1,4-dichloro-2-butene ND 26 ug/Kg 08/13/13 RJ SW8260 Trichloroethene ND 13 ug/Kg 08/13/13 RJ SW8260 Trichlorofluoromethane ND 13 ug/Kg 08/13/13 R/J SW8260 Trichlorotrifluoroethane ND 13 ug/Kg 08/13/13 SW8260 RJ Vinyl chloride ND 13 ug/Kg 08/13/13 RUJ SW8260 QA/QC Surrogates % 1,2-dichlorobenzene-d4 97 % 08/13/13 RJ 70 - 130 % % Bromofluorobenzene 91 % 08/13/13 R/J 70 - 130 % % Dibromofluoromethane 108 % 08/13/13 R/J 70 - 130 % % Toluene-d8 105 % 08/13/13 70 - 130 % R/J Polynuclear Aromatic HC 2-Methylnaphthalene 1100 230 ug/Kg 08/11/13 DD SW 8270 ND Acenaphthene 230 ug/Kg 08/11/13 DD SW 8270 ND 230 Acenaphthylene ug/Kg 08/11/13 DD SW 8270 Anthracene ND 230 ug/Kg 08/11/13 DD SW 8270 Benz(a)anthracene ND 230 ug/Kg 08/11/13 DD SW 8270 Benzo(a)pyrene ND 230 ug/Kg 08/11/13 DD SW 8270 Benzo(b)fluoranthene 420 230 ug/Kg 08/11/13 DD SW 8270 Benzo(ghl)perylene ND 230 ug/Kg 08/11/13 DD SW 8270 Benzo(k)fluoranthene ND 230 ug/Kg 08/11/13 DD SW 8270 Chrysene 470 230 ug/Kg 08/11/13 SW 8270 DD Dibenz(a,h)anthracene ND 230 ug/Kg 08/11/13 DD SW 8270 Fluoranthene 600 230 ug/Kg 08/11/13 DD SW 8270 Fluorene ND 230 ug/Kg 08/11/13 DD SW 8270 Indeno(1,2,3-cd)pyrene ND 230 ug/Kg 08/11/13 DD SW 8270

Client ID: 472130809-3

Phoenix I.D.: BF19155

Parameter	Result	RL/ PQL	Units	Date/Time _	Ву	Reference
Naphthalene	280	230	ид/Кд	08/11/13	DD	SW 8270
Phenanthrene	1300	230	ug/Kg	08/11/13	DD	SW 8270
Pyrene	520	230	ug/Kg	08/11/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiohenyl	59		%	08/11/13	DD	30 - 130 %
% Nitrobenzene-d5	35		%	08/11/13	DD	30 - 130 %
% Terphenyl-d14	59		%	08/11/13	DD	30 - 130 %

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

August 20, 2013

Reviewed and Released by: Bobbl Alolsa, Vice President

<sup>\*\*</sup>Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.



#### Environmental Laboratories, Inc.

587 East Middle Tumpike, P.O.Box 370, Manchesler, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

August 20, 2013

FOR:

Attn: Ms Marilee Gonzalez

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Collected by: Received by: Date

Time

Location Code:

F&O-PCB

DL SW 08/09/13 08/09/13 9:25 13:45

Rush Request:

Standard

Analyzed by:

see "By" below

P.O.#:

20110979A3E

**Laboratory Data** 

**Custody Information** 

SDG ID: GBF19153

Phoenix ID: BF19156

Project ID: Client ID: 176 CUMBERLAND AVE

472130809-4

Concerte Chip sample from Hazwash Shreyeroom

		RL/	((C-2)			
Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Silver	< 0.36	0.38	mg/Kg	08/12/13	EK	SW6010
Arsenic	2.4	0.7	mg/Kg	08/12/13	EK	SW6010
Barlum	43.4	0.36	mg/Kg	08/12/13	EK	SW6010
Cadmium	0.50	0.36	mg/Kg	08/12/13	EK	SW6010
Chromium	8.16	0.36	mg/Kg	08/12/13	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	08/13/13	RS	SW-7471
Lead	16.1	0.36	mg/Kg	08/12/13	EK	SW6010
Selenium	<1.4	1.4	mg/Kg	08/12/13	EK	SW6010
Percent Solid	97		%	08/09/13	W	E160.3
Soll Extraction SVOA PAH	Completed			08/09/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			08/09/13	SS/F	3545
Mercury Digestion	Completed			08/12/13	H/H	SW7471
Total Metals Digest	Completed			08/09/13	ZIAG	SW846 - 3050
Field Extraction	Completed			08/09/13		SW5035
Soxhlet Extraction for PCB	Completed			08/12/13	-/-	SW3540C
TPH by GC (Extractab	le Products	1				
Ext. Petroleum HC	2200	260	mg/Kg	08/12/13	, JRB	CT ETPH/8016
Identification	**		mg/Kg	08/12/13	JRB	CT ETPH/8016
QA/QC Surrogates						
% n-Pentacosane	Diluted Out		%	08/12/13	JRB	50 - 150 %
PCB (Soxhlet)			*			
PCB-1016	ND	6.8	mg/kg	08/16/13	AW	3540C/8082
PCB-1221	ND	6.8	mg/kg	08/16/13	AW	3540C/8082
PCB-1232	ND	6.8	mg/kg	08/16/13	AW	3540C/8082
PCB-1242	ND	6.8	mg/kg	08/16/13	AW	3540C/8082
PCB-1248	ND	6.8	mg/kg	. 08/16/13	AW	3540C/8082
PCB-1254	ND	6.8	mg/kg	08/16/13	AW	3540C/8082

B	B	RL/	1114114		-	Deference
Parameter	Result	PQL	Units	Date/Time	Ву	Reference
PCB-1260	18	6.8	mg/kg	08/16/13	AW	3540C/8082
PCB-1262	ND	6.8	mg/kg	08/16/13	AW	3540C/8082
PCB-1268	ND	6.8	mg/kg	08/16/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	Diluted Out		%	08/16/13	AW	30 - 150 %
% TCMX	Diluted Out		%	08/16/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,1,1-Trichloroethane	ND	260	ug/Kg	08/12/13	R/J	SW8280
,1,2,2-Tetrachloroethane	ND	150	ug/Kg	08/12/13	R/J	SW8260
,1,2-Trichloroethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,1-Dichloroethane	ND	260	ug/Kg	08/12/13	RVJ	SW8260
,1-Dichloroethene	ND	260	ug/Kg	08/12/13	RVJ	SW8260
,1-Dichloropropene	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2,3-Trichlorobenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2,3-Trichloropropane	ND	280	ug/Kg	08/12/13	R/J	SW8260
,2,4-Trichlorobenzene	ND	260	ug/Kg	08/12/13	RUJ	SW8260
,2,4-Trimethylbenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2-Dibromo-3-chloropropane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2-Dibromoethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2-Dichlorobenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2-Dichloroethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2-Dichloropropane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,3,5-Trimethylbenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
,3-Dichlorobenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
,3-Dichloropropane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,4-Dichlorobenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
2,2-Dichloropropane	ND	260	· ug/Kg	08/12/13	RUJ	SW8260
2-Chlorotoluene	ND	260	ug/Kg	08/12/13	R/J	SW8260
2-Hexanone	ND	1300	ug/Kg	08/12/13	R/J	SW8260
?-Isopropyttoluene	ND	260	ug/Kg	08/12/13	R/J	SW8260
I-Chlorotoluene	ND	260	ug/Kg	08/12/13	R/J	SW8260
I-Methyl-2-pentanone	ND	1300	ug/Kg	08/12/13	RJ	SW8280
Acetone	ND	1500	ug/Kg	08/12/13	R/J	SW8260
Acrylonitrile	ND	260	ug/Kg	08/12/13	R/J	SW8260
Benzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
Bromobenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
Bromochloromethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
Bromodichloromethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
Bromoform	ND	260	ug/Kg	08/12/13	R/J	SW8260
Bromomethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
Carbon Disutfide	ND	260	ug/Kg	08/12/13	R/J	SW8260
Carbon tetrachloride	ND	260	ug/Kg	08/12/13	R/J	SW8280
Chlorobenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
Chloroethane	ND	260	ug/Kg	08/12/13	R/J	SW8280
Chloroform	ND	260	ug/Kg	08/12/13	R/J	SW8260
Chloromethane	ND	260	ug/Kg	08/12/13	RJ	SW8260
sls-1,2-Dichloroethene	ND	260	ug/Kg	08/12/13	R/J	SW8260
ds-1,3-Dichloropropene	ND	260	ug/Kg	08/12/13	R/J	SW8260

Project ID: 176 CUMBERLAND AVE Client ID: 472130809-4

Andrew Street	2	RL	inic			
Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Dibromochloromethane	ND	150	ug/Kg	08/12/13	R/J	SW8260
Dibromomethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
Dichlorodifluoromethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
Ethylbenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
Hexachlorobutadiene	ND	260	ug/Kg	08/12/13	R/J	SW8260
Isopropyfbenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
m&p-Xylene	ND	260	ug/Kg	08/12/13	R/J	SW8260
Methyl Ethyl Ketone	ND	1500	ug/Kg	08/12/13	R/J	SW8280
Methyl t-butyl ether (MTBE)	ND	520	ug/Kg	08/12/13	R/J	SW8260
Methylene chloride	ND	260	ug/Kg	08/12/13	R/J	SW8280
Naphthalene	ND	260	ug/Kg	08/12/13	R/J	SW8260
n-Butylbenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
n-Propylbenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
o-Xylene	ND	260	ug/Kg	08/12/13	R/J	SW8260
o-Isopropytoluene	ND	260	ug/Kg	08/12/13	R/J	SW8260
ec-Butylbenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
Styrene	ND	260	ug/Kg	08/12/13	R/J	SW8260
ert-Butylbenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
Tetrachloroethene	ND	260	ug/Kg	08/12/13	R/J	SW8260
Fetrahydrofuran (THF)	ND	520	ug/Kg	08/12/13	R/J	SW8260
Toluene	ND	260	ug/Kg	08/12/13	R/J	SW8260
otal Xylenes	ND	260	ug/Kg	08/12/13	R/J	SW8260
rans-1,2-Dichloroethene	ND	260	ug/Kg	08/12/13	R/J	SW8260
rans-1,3-Dichloropropene	ND	260	ug/Kg	08/12/13	R/J	SW8260
rans-1,4-dichloro-2-butene	ND	520	ug/Kg	08/12/13	R/J	SW8260
richlomethene	ND	260	ug/Kg	08/12/13	R/J	SW8260
richlorofluoromethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
richlorotrifluoroethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
/inyl chloride	ND	260	ug/Kg	08/12/13	R/J	SW8260
QA/QC Surrogates			27.07.	077777	-0.77	
6 1,2-dichlorobenzene-d4	105		%	08/12/13	R/J	70 - 130 %
6 Bromofluorobenzene	88		%	08/12/13	R/J	70 - 130 %
6 Dibromofluoromethane	108		%	08/12/13	RU	70 - 130 %
6 Toluene-d8	103		%	08/12/13	R/J	70 - 130 %
Polynuclear Aromatic H	C					
-Methylnaphthalene	ND	230	ug/Kg	08/11/13	DD	SW 8270
cenaphthene	ND	230	ug/Kg	08/11/13	DD	SW 8270
cenaphthylene	ND	230	ug/Kg	08/11/13	DD	SW 8270
inthracene	ND	230	ug/Kg	08/11/13	DD	SW 8270
enz(a)anthracene	ND	230	ug/Kg	08/11/13	DD	SW 8270
enzo(a)pyrene	ND	230	ug/Kg	08/11/13	DD	SW 8270
enzo(b)fluoranthena	ND	230	ug/Kg	08/11/13	DD	SW 8270
enzo(ghl)perylene	ND	230	ug/Kg	08/11/13	DD	SW 8270
enzo(k)fluoranthene	ND	230	ug/Kg	08/11/13	DD	SW 8270
hrysene	ND	230	ug/Kg	08/11/13		SW 8270
benz(a,h)anthracene	ND	230	ug/Kg	08/11/13	DD	
luoranthene	ND	230	ug/Kg	08/11/13	DD	SW 8270
luorene	ND	230	ug/Kg	08/11/13	DD	SW 8270 SW 8270
ideno(1,2,3-cd)pyrene	ND	230	AB 1.48	00/11/13	UU	SVV 02/0

Client ID: 472130809-4

Phoenix I.D.: BF19156

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Naphthalene	 ND	230	ug/Kg	08/11/13	DD	SW 8270
Phenanthrene	ND	230	ug/Kg	08/11/13	DD	SW 8270
Pyrene	ND	230	ug/Kg	08/11/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluoroblphenyl	75		%	08/11/13	DD	30 - 130 %
% Nitrobenzene-d5	62		%	08/11/13	DD	30 - 130 %
% Terphenyl-d14	56		%	08/11/13	DD	30 - 130 %

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

All soils, solids and studges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

August 20, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

<sup>\*\*</sup>Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.



Environmental Laboratories, Inc. 587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

August 20, 2013

FOR:

**Custody Information** 

Attn: Ms Marilee Gonzalez

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Collected by:

RI/

Date

Time

Location Code:

F&O-PCB

DL Received by:

08/09/13 08/09/13 9:40

Rush Request:

Standard

Analyzed by:

see "By" below

13:45

P.O.#:

20110979A3E

**Laboratory Data** 

SDG ID: GBF19153

Phoenix ID: BF19157

Project ID:

176 CUMBERLAND AVE

Client ID:

472130809-5

Concete chip simple from hatwest stray room

A	Denist	RL/	13.44	National Control	Du	Defenses
Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Silver	< 0.38	0.36	mg/Kg	08/12/13	EK	SW6010
Arsenic	4.9	0.7	mg/Kg	08/12/13	EK	SW6010
Barlum	49.0	0.36	mg/Kg	08/12/13	EK	SW6010
Cadmium	1.03	0.36	mg/Kg	08/12/13	EK	SW6010
Chromlum	14.5	0.36	mg/Kg	08/12/13	EK	SW6010
Mercury	< 0.08	0.06	mg/Kg	08/13/13	RS	SW-7471
Lead	67.1	0.36	mg/Kg	08/12/13	EK	SW8010
Selenium	< 1.4	1.4	mg/Kg	08/12/13	EK	SW6010
Percent Solid	98		%	08/09/13	W	E160.3
Soil Extraction SVOA PAH	Completed			08/09/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			08/09/13	SS/F	3545
Mercury Digestion	Completed			08/12/13	H/H	SW7471
Total Metals Digest	Completed			08/09/13	Z/AG	SW846 - 3050
Field Extraction	Completed			08/09/13		SW5035
Soxhlet Extraction for PCB	Completed			08/12/13	*/*	SW3540C
TPH by GC (Extractab	le Products	1				
Ext. Petroleum HC	4200	510	mg/Kg	08/12/13	JRB	CT ETPH/801
Identification	**		mg/Kg	08/12/13	JRB	CT ETPH/801
QA/QC Surrogates			V77.7			
% n-Pentacosane	Diluted Out		%	08/12/13	JRB	50 - 150 %
PCB (Soxhlet)						
PCB-1016	ND	6.8	mg/kg	08/16/13	AW	3540C/8082
PCB-1221	ND	6.8	mg/kg	08/16/13	AW	3540C/8082
PCB-1232	ND	6.8	mg/kg	08/16/13	AW	3540C/8082
PCB-1242	ND	6.8	mg/kg	08/16/13	AW	3540C/8082
PCB-1248	ND	6.8	mg/kg	08/16/13	AW	3540C/8082
PCB-1254	ND	6.8	mg/kg	08/16/13	AW	3540C/8082

Project ID: 176 CUMBERLAND AVE Client ID: 472130809-5

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
PCB-1260	31	6.8	mg/kg	08/16/13	AW	3540C/8082
PCB-1262	ND	6.8	mg/kg	08/16/13	AW	3540C/8082
PCB-1268	ND	6.8	mg/kg	08/16/13	AW	3540C/8082
QA/QC Surrogates						
6 DCBP	Diluted Out		%	08/16/13	AW	30 - 150 %
6 TCMX	Diluted Out		%	08/16/13	AW	30 - 150 %
/olatiles			4			
,1,1,2-Tetrachloroethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,1,1-Trichloroethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,1,2,2-Tetrachloroethane	ND	150	ug/Kg	08/12/13	R/J	SW8260
1,2-Trichloroethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,1-Dichloroethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,1-Dichloroethene	ND	260	ug/Kg	08/12/13	R/J	SW8260
1-Dichloropropene	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2,3-Trichlorobenzene	ND	260	ug/Kg	08/12/13	RUJ	SW8260
,2,3-Trichloropropane	ND	260	ug/Kg	08/12/13	R/J	SW8280
,2,4-Trichlorobenzene	ND	260	ug/Kg	08/12/13	R/J	SW8280
,2,4-Trimethylbenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2-Dibromo-3-chloropropane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2-Dibromoethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2-Dichlorobenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2-Dichloroethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2-Dichloropropane	ND	260	ug/Kg	08/12/13	R/J	SW8260
,3,5-Trimethylbenzene	ND	260	ug/Kg	08/12/13	RUJ	SW8260
,3-Dichlorobenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
,3-Dichloropropane	ND	260	ug/Kg	08/12/13	RU	SW8280
,4-Dichlorobenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
,2-Dichloropropane	ND	260	ug/Kg	08/12/13	R/J	SW8260
-Chlorotoluene	ND	260	ug/Kg	08/12/13	R/J	SW8280
-Hexanone	ND	1300	ug/Kg	08/12/13	R/J	SW8280
-Isopropyttoluene	ND	260	ug/Kg	08/12/13	RIJ	SW8260
-Chlorotoluene	ND	260	ug/Kg	08/12/13	R/J	SW8260
l-Methyl-2-pentanone	ND	1300	ug/Kg	08/12/13	R/J	SW8260
Acetone	ND	1500	ug/Kg	08/12/13	R/J	SW8260
Acrylonitrile	ND	260	ug/Kg	08/12/13	R/J	SW8260
Benzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
Promobenzene	ND	260	ug/Kg	08/12/13	R/J	SW8280
Bromochloromethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
Bromodichloromethane	ND	260	ug/Kg	08/12/13	R/J	SW8280
Bromoform	ND	260	ug/Kg	08/12/13	R/J	SW8260
Bromomethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
Carbon Disulfide	ND	260	ug/Kg	08/12/13	R/J	SW8260
Carbon tetrachloride	ND	280	ug/Kg	08/12/13	R/J	SW8260
Chlorobenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
Chloroethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
Chloroform	ND	260	ug/Kg	08/12/13	R/J	SW8260
Chloromethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
ds-1,2-Dichloroethene	ND	260	ug/Kg	08/12/13	R/J	SW8260
cis-1,3-Dichloropropena	ND	260	ug/Kg	08/12/13	RUJ	

Project ID: 176 CUMBERLAND AVE Client ID: 472130809-5

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Dibromochloromethane	ND	150	ug/Kg	08/12/13	R/J	SW8260
Dibromomethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
Dichlorodifluoromethane	ND	260	ug/Kg	08/12/13	R/J	SW8260
Ethylbenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
lexachlorobutadiene	ND	260	ug/Kg	08/12/13	R/J	SW8280
sopropylbenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
n&p-Xylene	ND	260	ug/Kg	08/12/13	R/J	SW8260
Methyl Ethyl Ketone	ND	1500	ug/Kg	08/12/13	RJJ	SW8260
Methyl t-butyl ether (MTBE)	ND	510	· ug/Kg	08/12/13	R/J	SW8260
Methylene chloride	ND	260	ug/Kg	08/12/13	R/J	SW8260
Vaphthalene	ND	260	ug/Kg	08/12/13	R/J	SW8260
-Butylbenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
-Propythenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
-Xylene	ND	260	ug/Kg	08/12/13	R/J	SW8260
-Isopropyttoluene	ND	260	ug/Kg	08/12/13	R/J	SW8260
ec-Butylbenzene	ND	280	ug/Kg	08/12/13	R/J	SW8260
Styrene	ND	260	ug/Kg	08/12/13	R/J	SW8260
ert-Butylbenzene	ND	260	ug/Kg	08/12/13	R/J	SW8260
etrachloroethene	ND	260	ug/Kg	08/12/13	R/J	SW8260
etrahydrofuran (THF)	ND	510	ug/Kg	08/12/13	R/J	SW8260
oluene	ND	260	ug/Kg	08/12/13	R/J	SW8260
otal Xylenes	ND	260	ug/Kg	08/12/13	R/J	SW8260
ans-1,2-Dichloroethene	ND	260	ug/Kg	08/12/13	R/J	SW8260
ans-1,3-Dichloropropene	ND	260	ug/Kg	08/12/13	R/J	SW8260
ans-1,4-dichloro-2-butene	ND	510	ug/Kg	08/12/13	R/J	SW8260
richloroethene	ND	260	ug/Kg	08/12/13	R/J	SW8280
richlorofluoromethane	ND	260	ug/Kg	08/12/13	R/J	SW8280
richlorotrifluoroethane	ND	260	ug/Kg	08/12/13	R/J	SW8280
finyl chloride	ND	260	ug/Kg	08/12/13	R/J	SW8260
QA/QC Surrogates	777	V-22-5		A. 100 100 100 100 100 100 100 100 100 10	,,,,,	211224
6 1,2-dichlorobenzene-d4	106		%	08/12/13	R/J	70 - 130 %
6 Bromofluorobenzene	88		%	08/12/13	R/J	70'- 130 %
6 Dibromofluoromethane	105		%	08/12/13	R/J	70 - 130 %
% Toluene-d8	103		%	08/12/13	R/J	70 - 130 %
Polynuclear Aromatic H	IC					
-Methylnaphthalene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
cenaphthene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
cenaphthylene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
Inthracene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
Benz(a)anthracene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
lenzo(a)pyrene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
enzo(b)fluoranthene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
lenzo(ghi)perylene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
Senzo(k)fluoranthene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
Chrysene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
luoranthene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
Norene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
ndeno(1,2,3-cd)pyrene	ND	1200	ug/Kg	08/11/13	DD	SW 8270

Client ID: 472130809-5

Phoenix I.D.: BF19157

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Naphthalene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
Phenanthrene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
Pyrene	ND	1200	ug/Kg	08/11/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluoroblphenyl	103		%	08/11/13	DD	30 - 130 %
% Nitrobenzene-d5	84		%	08/11/13	DD	30 - 130 %
% Terphenyl-d14	80		%	08/11/13	DD	30 - 130 %

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

August 20, 2013

Reviewed and Released by: Bobbl Aloisa, Vice President

<sup>\*</sup> Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

34ctp dry play trio low no change (Fig. Phean Ck. \*Sorcharge Applies LABORATORY 1 Other chen Limit Requirements D RCP Deliverables D MCP CAM Cert. this blanks, duptients included 0.24-Hour U72-Hour 5 dry) 191519 19158 19153 19156 191157 19/155 19 J5 H 20110979, A3E DQA/QC 2 Blents 100th Ø 7 N (Lespony 2 Charge Bumptions DCT Tax Brampt Deplicates C 317 Iron Horse Way, Suite 204, Providence, RI 02908 □ 80 Washington Street, Suite 301, Poughboopsie, NY 178 Innestate Drive, West Springfield, MA 01089 PROJECT NUMBER 13.45 Reporting and D. XXXXX OHO × SYXXX 0960 OKXXXX Nothers Gold, CT × X 27497 Analysis Request Time XIIXO 3 19 105 SHIS 0840 X Des 1012 Suppled 80 CHAIN-OF-CUSTODY RECORD Dame 8 19 113 U 1419 Richland Street, Columbia, SC 29201 O 146 Hartford Road, Menchester, CT 06040 PROJECT LOCATION Sampled D 56 Quarry Road, Trumball, CT 06611 S. Sanie S=Soil C=Concrete Accepted By South V) × tate A=Air **sonzalez** 9-4728130809~ #-Y T=Trestment W=Waste 76 Cumberland Are ŧ Semple Number FUSS&O'NEILL PW=Porable Water X=Ode Trip blanks (963) 646-2469 · eve.PandO.com Marilee Reinquished By PROJECT NAME Sampler's Signature: Source Codes:
NW=Monttochig Well
SW=Source Water 1 2 3 4 Transfer Check REPORT TO: INVOICE TO: P.O. No.: -Transfer 4 Š



#### Environmental Laboratories, Inc.

587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

December 05, 2013

FOR:

Attn: Ms Marilee Gonzalez

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample	Information
--------	-------------

Matrix:

SOIL

**F&O** 

Collected by: Received by:

**Custody Information** SS

**Date** 11/15/13 Time 12:50

Standard Analyzed by: SW

see "By" below

11/15/13

15:55

Rush Request: P.O.#:

20110979A3E

Laboratory Data

SDG ID: GBF77269

Phoenix ID: BF77278

Project ID: Client ID:

Location Code:

176 CUMBERLAND AVE

1188131115-10

TVCS-01 (0-0.25')

Concrete Sample from

Transformer Vault RU Parameter PQL Result Units Date/Time Reference Percent Solid 97 % E160.3 11/15/13 ı Soil Extraction for PCB Completed 11/15/13 **BBN SW3545** Extraction of CT ETPH Completed 11/15/13 BS/VF 3545 TPH by GC (Extractable Products) Ext. Petroleum HC 2600 JRB CT ETPH/8015 mg/Kg 11/20/13 Identification 11/20/13 mg/Kg JRB CT ETPH/8015 QA/QC Surrogates % n-Pentacosane **Diluted Out** 11/20/13 JRB 50 - 150 % Polychlorinated Biphenyls PCB-1016 ND 330 ug/Kg 11/16/13 AW SW 8082 PCB-1221 ND 330 ug/Kg 11/16/13 AW SW 8082 PCB-1232 ND 330 ug/Kg 11/16/13 SW 8082 AW PCB-1242 ND 330 ug/Kg 11/16/13 SW 8082 AW PCB-1248 ND 330 ug/Kg 11/16/13 SW 8082 AW PCB-1254 ND 330 ug/Kg 11/16/13 SW 8082 PCB-1260 1500 330 ug/Kg 11/16/13 SW 8082 AW PCB-1262 ND 330 ug/Kg 11/16/13 AW SW 8082 PCB-1268 ND 330 ug/Kg 11/16/13 SW 8082 AW QA/QC Surrogates % DCBP 109 11/16/13 AW 30 - 150 % % TCMX 91 % 11/16/13 30 - 150 %

Client ID: 1188131115-10

TVCS-01 (0-0.25')

Phoenix I.D.: BF77278

Result

RL/ PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

Parameter

\*\*Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C28. The sample was quantitated against a C9-C38 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 05, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director



## Environmental Laboratories, Inc.

587 East Middle Tumplike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

P.O.#:

December 05, 2013

20110979A3E

FOR:

Attn: Ms Marilee Gonzalez

Fuss & O'Neill, Inc. 148 Hartford Road Manchester, CT 06040

Sample Information		<b>Custody Inform</b>	nation	Date	Time	
Matrix:	SOIL	Collected by:	SS	11/15/13	11:05	
Location Code:	F&O	Received by:	sw	11/15/13	15:55	

Rush Request: Standard Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBF77269

Phoenix ID: BF77279

Project ID: 176 CUMBERLAND AVE
Client ID: 1188131115-11 TVCS-02 (0-0.25')

L Stand From Transformer Vault

2000		RL	Conce			
Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	97		%	11/15/13	1,	E160.3
Soil Extraction for PCB	Completed			11/15/13	BBN	SW3545
Extraction of CT ETPH	Completed			11/15/13	BS/VF	3545
TPH by GC (Extractal	ble Products)					
Ext. Petroleum HC	16000	2800	mg/Kg	11/20/13	JRB	CT ETPH/8015
Identification	•		mg/Kg	11/20/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	Diluted Out		%	11/20/13	JRB	50 - 150 %
Polychlorinated Biph	enyls					
PCB-1016	ND	340	ug/Kg	11/16/13	AW	SW 8082
PCB-1221	ND	340	ug/Kg	11/16/13	AW	SW 8082
PCB-1232	ND	340	ug/Kg	11/16/13	AW	SW 8082
PCB-1242	ND	340	ug/Kg	11/16/13	AW	SW 8082
PCB-1248	ND	340	ug/Kg	11/16/13	AW	SW 8082
PCB-1254	ND	340	ug/Kg	11/16/13	AW	SW 8082
PCB-1260	1300	340	ug/Kg	11/16/13	AW	SW 8082
PCB-1262	ND	340	ug/Kg	11/16/13	AW	SW 8082
PCB-1268	ND	340	ug/Kg	11/16/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	104		%	11/16/13	AW	30 - 150 %
% TCMX	96		%	11/16/13	AW	30 - 150 %

Project ID: 176 CUMBERLAND AVE

Client ID: 1188131115-11

TVCS-02 (0-0.25')

Phoenix I.D.: BF77279

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

\*\*Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C28. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 05, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

do stang PROGRATORY 77270 (play) 17275 TAT 1727 127 27876 Suchage Appli 1 Ocher TEMENTE CACE Deliverible D MCP CAM Cert topicae hald antiffered \$350 ml 47244 (See Asset D 24-Hour 172-Hour DOther ය ල 7 C 517 Iron Horse Way, Suize 204, Providence, RI 02908 CI 80 Weshington Street, State 301, Poughberpaie, NY PROJECT NUMBER 1778 Interstate Drive, West Sychogfield, MA 01089 KB SB Reporting and Denoction Limit 1 \* 29300 Analysis Request 08.35 1030 10401 1.95 5.55 5.55 11/15/13 09:30 A P 115 1035 CHAIN-OF-CUSTODY RECORD 146 Hertford Road, Manchester, CT 06040 U 1419 Richland Street, Columbia, SC 29201 Sempled U 56 Quarry Road, Trumboll, CT 06611 S-Soil C-Congress Accepted By South T=Theament Recility
W=Wate A=Air 50 B विद् 20 Semple Number व्व Ş: 1188131115-01 **FUSS&O'NEILL** (860) 646-2469 · www.PandO.mm Me Cumperland PROJECT NAME Sampler's Signature: Transfer Check 1 2 3 INVOICE TO: REPORT TO: P.O. No.: 8 Transfer Number

December 10, 2013

HRP Associates, Inc. 197 Scott Swamp Road Farmington, CT 06032

Attn: Ms. Jenny Mooney

Former Garage Slab (C-1, ec-2

Please find attached laboratory report(s) for the samples submitted on: November 27, 2013.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No.

: 1113444

PO/Job No.

: AME5701.RA

Invoice No.

183918

Customer No.: 350

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco **Laboratory Director** PH-0547



STEPHEN I. FRANCO Laboratory Director

PHONE \* 203/634-3731

www.ctl-web.com / ctestlab@erols.com 165 GRACEY AVENUE MERIDEN, CT 4 06451

# CASE NARRATIVE

Connecticut Testing Laboratories, Inc.

### Prepared for:

HRP Associates, Inc. 197 Scott Swamp Rd

Farmington, CT 06032

Order#:

1113444

Project:

AME5701.RA

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
CC-1	18334	SOIL	11/26/2013	11/27/2013
CC-2	18335	SOIL	11/26/2013	11/27/2013

There is currently no RCP criteria for TPH by EPA 8100, Flash Point, pH, Conductivity or Reactivity analysis, however, QC data has been reported and meets the requirements of each non-RCP method.

The ETPH discrimination check meets RCP criteria.

SVOC anomalies are noted in the RCP DQA summary table attached to this report.

Due to matrix interferences, the following samples were diluted for SVOC analysis and the reporting levels have been raised accordingly; CTL nos. 18334 & 18335.

The enclosed results of analyses are representative of the samples as received by the laboratory. Connecticut Testing Laboratories, Inc. makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

Connecticut Testing Laboratories, Inc.

Date:

12/9/18

Date Samples Received: 11/27/2013

Client Name: HRP Associates, Inc.

Report Date: 12/09/2013

CTL Lab No .: PO No:

1113444

Method #:

SW 3545/8082A

AME5701.RA

Analyst:

MTL

### RESULTS OF ANALYSIS

### EPA Method 8082 RCP

Matrix Type:

SOIL

SOIL

CTL Sample No.:

18334

18335

Field ID:

CC-1

CC-2

Date Analyzed:

12/05/2013

12/05/2013

Date Extracted:

12/02/2013

12/02/2013

Parameters	Units	RL			
Aroclor 1016	mg/kg	0.5	ND	ND	
Aroclor 1221	mg/kg	0.5	ND	ND	
Aroclor 1232	mg/kg	0.5	ND	ND	
Aroclor 1242	mg/kg	0.5	ND	ND	
Aroclor 1248	mg/kg	0.5	ND	ND	
Aroclor 1254	mg/kg	0.5	ND	ND	
Aroclor 1260	mg/kg	0.5	2.4	2.5	
PCBs, Total	mg/kg	0.5	2.4	2.5	
Decachlorobiphenyl-SR	%	****	106	104	
Tetrachloro-m-Xylene-SR	%		125	119	

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc. 165 Gracey Avenue / Meriden, CT 06451 (203) 634-3731 (Fax) 630-1336 Certification CT-PH0547 / MA-CT035

# CHAIN OF CUSTODY RECORD

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Connecticut Testing Laboratories, Inc. 165 Gracey Ave. / Meriden, CT 06451 Tel. (203) 634-3731 / Fax (203) 630-1336

Page ! of

### Kathleen Pane

From:

Woodward, Katherine < Woodward.Katherine@epa.gov>

Sent:

Tuesday, July 08, 2014 4:17 PM

To:

Kathleen Pane

Subject:

Discovery Academy Modification

### Kathleen,

In accordance with Attachment 1, Condition 16 of the Approval dated March 27, 2013, EPA has reviewed the modification to the Notification dated March 26, 2014 and the subsequent email dated June 30, 2014. EPA has determined that the modification is consistent with the Approval.

Once the garage slab has been removed and the soils sampled, please provide the soil data to EPA. In addition, please ensure that all data collected under the modification is included in the Project Completion Report.

If you have any questions, please feel free to contact me.

### Kate

Katherine A Woodward, PE US Environmental Protection Agency 5 Post Office Square, Suite 100 Mail Code: OSRR07-2

Boston, MA 02109-3912 Phone: (617)918-1353 Fax: (617)918-0353



# Appendix B

**Notification Approval Letter** 



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGIÓN I 5 POST OFFICE SQUARE, SUITE 100 BOSTON, MASSACHUSETTS 02109-3912

### CERTIFIED MAIL - RETURN RECEIPT REQUESTED

MAR 2 / 2013

Mr. Robert Saunders Project/Program Manager Capital Region Education Council 108 Charter Oak Avenue Hartford, Connecticut 06106

Re:

PCB Cleanup and Disposal Approval under 40 CFR § 761.61(a) and § 761.79(h)

176 Cumberland Avenue Wethersfield, Connecticut

Dear Mr. Saunders:

This is in response to the Capital Region Education Council (CREC) Notification<sup>1</sup> for approval to clean up and dispose of PCB-contaminated building materials in the building located at 176 Cumberland Avenue, Wethersfield, Connecticut (the Site). The Site contains caulk and other building materials that exceeds the allowable PCB levels under the federal PCB regulations at 40 CFR § 761.20(a), § 761.61, and § 761.62.

In its Notification, CREC has proposed the following PCB cleanup and disposal plan:

- Remove exterior window/door, interior expansion/wall/floor joint and exterior pink PCB caulk from the Main Building and Garage, and the exterior window/door caulk from the South Building for disposal as a PCB bulk product waste
- ➤ Remove porous and non-porous surfaces in contact with the PCB caulk (e.g., window/door assemblies, and 8 inches (1 course) exterior brick and 8 inches (½ course) concrete block) for disposal as PCB bulk product waste
- Decontaminate non-porous surfaces (i.e., steel lintels) that will remain to a less than or equal to  $(\le) 1 \mu g/100 \text{ cm}^2 \text{ PCB}$  cleanup standard

<sup>&</sup>lt;sup>1</sup>The notifications were prepared by Fuss & O'Neill on behalf of CREC to satisfy the notification requirement under 40 CFR § 761.61(a)(3). Information was submitted dated November 13, 2012 (Self-Implementing On-Site Cleanup and Disposal Plan (SIDP)); March 7, 2013 (Revised SIDP and Response to EPA Comments); and March 22, 2013 (email response to questions concerning area). These submittals shall be referred to as the "Notification".

- Remove bulk PCB remediation waste (i.e., soils in Areas 5, 10, and 15 to a depth of 4 inches, and Areas 4 and 6 to a depth of 8 inches) within 60 inches of the building foundation and dispose of as a less than (<) 50 ppm PCB waste in a RCRA non-hazardous waste landfill in accordance with § 761.61(a)(5)(i)(B)(2)(ii);</p>
- Conduct verification sampling for porous surfaces and soils in accordance with 40 CFR 761 Subpart O, and Subpart P for non-porous surfaces.

CREC may proceed with its cleanup in accordance with 40 CFR § 761.61(a); § 761.62; § 761.79(h); its Notification; and this Approval, subject to the conditions of Attachment 1.

Questions and correspondence regarding this Approval should be directed to:

Kimberly N. Tisa, PCB Coordinator (OSRR07-2) United States Environmental Protection Agency 5 Post Office Square, Suite 100 Boston, Massachusetts 02109-3912

Telephone: (617) 918-1527 Facsimile: (617) 918-0527

EPA shall not consider this project complete until it has received all submittals required under this Approval. Please be aware that upon EPA receipt and review of the submittals, EPA may request any additional information necessary to establish that the work has been completed in accordance with 40 CFR Part 761, the Notification, and this Approval.

Sincerely.

James T. Owens III, Director

Office of Site Remediation & Restoration

cc Stephen W. Connelly, Fuss & O'Neill Gary Trombly, CT DEEP File

Attachment 1: PCB Approval Conditions

### ATTACHMENT 1:

### PCB CLEANUP AND DISPOSAL APPROVAL CONDITIONS 176 CUMBERLAND AVENUE (the Site) WETHERSFIELD, CONNECTICUT

### GENERAL CONDITIONS

- 1. This Approval is granted under the authority of Section 6(e) of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2605(e), and the PCB regulations at 40 CFR Part 761, and applies solely to the PCB bulk product waste and the PCB remediation waste located at the Site and identified in the Notification.
- Capital Region Education Council (CREC) shall conduct on-site activities in accordance with the conditions of this Approval and with the Notification.
- In the event that the cleanup plan described in the Notification differs from the conditions specified in this Approval, the conditions of this Approval shall govern.
- The terms and abbreviations used herein shall have the meanings as defined in 40 CFR § 761.3 unless otherwise defined within this Approval.
- 5. CREC must comply with all applicable federal, state and local regulations in the storage, handling, and disposal of all PCB wastes, including PCBs, PCB Items and decontamination wastes generated under this Approval. In the event of a new spill during response actions, CREC shall contact EPA within 24 hours for direction on PCB cleanup and sampling requirements.
- 6. CREC is responsible for the actions of all officers, employees, agents, contractors, subcontractors, and others who are involved in activities conducted under this Approval. If at any time CREC has or receives information indicating that CREC or any other person has failed, or may have failed, to comply with any provision of this Approval, it must report the information to EPA in writing within 24 hours of having or receiving the information.
- 7. This Approval does not constitute a determination by EPA that the transporters or disposal facilities selected by CREC are authorized to conduct the activities set forth in the Notification. The is responsible for ensuring that its selected transporters and disposal facilities are authorized to conduct these activities in accordance with all applicable federal, state and local statutes and regulations.

- This Approval does not: 1) waive or compromise EPA's enforcement and regulatory authority; 2) release CREC from compliance with any applicable requirements of federal, state or local law; or 3) release CREC from liability for, or otherwise resolve any violations of federal, state or local law.
- Failure to comply with the Approval conditions specified herein shall constitute a violation of the requirement in § 761.50(a) to store or dispose of PCB waste in accordance with 40 CFR Part 761 Subpart D.

### NOTIFICATION AND CERTIFICATION CONDITIONS

- This Approval may be revoked if the EPA does not receive written notification from CREC of its acceptance of the conditions of this Approval within 10 business days of receipt.
- 11. CREC shall submit the following information for EPA review and/or approval:
  - a certification signed by its selected abatement/demolition contractor, stating that the contractor(s) has read and understands the Notification, and agrees to abide by the conditions specified in this Approval;
  - b. a contractor work plan, prepared and submitted by the selected demolition or abatement contractor(s) describing the containment and air monitoring that will be employed during abatement activities. This work plan should also include information on how and where wastes will be stored and disposed of, and on how field equipment will be decontaminated; and,
  - c. a certification signed by the selected analytical laboratory, stating that the laboratory has read and understands the extraction and analytical method requirements and quality assurance requirements specified in the Notification and in this Approval.

### REMEDIAL AND DISPOSAL CONDITIONS

12. To the maximum extent practical, engineering controls, such as barriers, and removal techniques, such as the use of HEPA ventilated tools, shall be utilized during removal processes. In addition, to the maximum extent possible, disposable equipment and materials, including PPE, will be used to reduce the amount of decontamination necessary.

- 13. PCB-contaminated materials shall be decontaminated and confirmatory sampling and analysis shall be conducted as described below:
  - All visible residues of PCB bulk product waste (i.e., PCB caulk) shall be removed as described in the Notification.
  - b. The cleanup standard for bulk PCB remediation waste (i.e., soil) shall be less than or equal to (≤) 1 part per million (ppm). Verification samples shall be collected on a bulk basis (e.g., mg/kg) and reported on a dry-weight basis. Verification sampling shall comply with Subpart O; samples shall be collected from both excavation bottoms and sidewalls, as applicable.
  - c. The decontamination standard for porous surfaces (i.e., bricks and concrete) shall be ≤ 1 ppm. Sampling for porous surfaces shall be performed on a bulk basis (i.e., mg/kg) and reported on a dry weight analysis. Sampling for porous surfaces shall be conducted in accordance with the EPA Region 1 Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs) Revision 4, May 5, 2011, at a maximum depth interval of 0.5 inches. Verification samples shall be collected at the frequency specified in 40 CFR 761 Subpart O.
  - d. The decontamination standard for non-porous surfaces (i.e., steel lintels) shall be as follows:
    - Post-decontamination verification sampling of non-porous surfaces shall be performed on a surface area basis by the standard wipe test as specified in 40 CFR § 761.123 (i.e., μg/100 cm<sup>2</sup>) and in accordance with Subpart P.
    - ii) In the event decontaminated non-porous surfaces have PCB concentrations at greater than (>) 1μg/100 cm<sup>2</sup> PCBs, CREC may conduct additional decontamination to achieve the required decontamination standard or must store and dispose of these wastes in accordance with 40 CFR Part 761.
  - e. Chemical extraction for PCBs shall be conducted using Methods 3500B/3540C of SW-846; and, chemical analysis for PCBs shall be conducted using Method 8082 of SW-846, unless another extraction/analytical method(s) is validated according to Subpart Q.
- 14. All PCB waste (regardless of concentration) generated as a result of the activities described in the Notification, excluding any decontaminated materials, shall be marked in accordance with § 761.40; stored in a manner prescribed in § 761.65; and, disposed of in accordance with 40 CFR § 761.61(a)(5) or § 761.62, unless otherwise specified below:
  - Decontamination wastes and residues shall be disposed of in accordance with 40 CFR § 761.79(g).

- Moveable equipment, tools, and sampling equipment shall be decontaminated in accordance with either 40 CFR § 761.79(b)(3)(i)(A), § 761.79(b)(3)(ii)(A), or § 761.79(c)(2).
- c. PCB-contaminated water generated during decontamination shall be decontaminated in accordance with 40 CFR § 761.79(b)(1) or disposed of under § 761.60.

### INSPECTION, MODIFICATION AND REVOCATION CONDITIONS

- 15. CREC shall allow any authorized representative of the Administrator of the EPA to inspect the Sites and to inspect records and take samples as may be necessary to determine compliance with the PCB regulations and this Approval. Any refusal by CREC to allow such an inspection (as authorized by Section 11 of TSCA) shall be grounds for revocation of this Approval.
- 16. Any proposed modification(s) in the plan, specifications, or information in the Notification must be submitted to EPA no less than 14 calendar days prior to the proposed implementation of the change. Such proposed modifications will be subject to the procedures of 40 CFR § 761.61(a)(3)(ii).
- 17. Any departure from the conditions of this Approval without prior, written authorization from the EPA may result in the revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.
- 18. Any misrepresentation or omission of any material fact in the Notification or in any records or reports may result in the EPA's revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.

### RECORDKEEPING AND REPORTING CONDITIONS

19. CREC shall prepare and maintain all records and documents required by 40 CFR Part 761, including but not limited to the records required under Subparts J and K. A written record of the decontamination and the analytical sampling shall be established and maintained by CREC in one centralized location, until such time as EPA approves in writing a request for an alternative disposition of such records. All records shall be made available for inspection to authorized representatives of EPA.

- 20. CREC shall submit a final report as both a hard copy and electronic version, to the EPA within 60 days of completion of the activities authorized under this Approval. At a minimum, this final report shall include: a short narrative of the project activities with photo-documentation; characterization and confirmation sampling analytical results; copies of the accompanying analytical chains of custody; field and laboratory quality control/quality assurance checks; an estimate of the quantity of PCB waste disposed of; copies of manifests and bills of lading; and copies of certificates of disposal or similar certifications issued by the disposer.
- 21. Required submittals shall be mailed to:

Kimberly N. Tisa, PCB Coordinator (OSRR07-2) United States Environmental Protection Agency 5 Post Office Square, Suite 100 Boston, Massachusetts 02109-3912 Telephone: (617) 918-1527

Facsimile: (617) 918-0527

 No record, report or communication required under this Approval shall qualify as a selfaudit or voluntary disclosure under EPA audit, self-disclosure or penalty policies.

\*\*\*\*\*\*\*\*\*

**END OF ATTACHMENT** 



# **Appendix C**

**Approval Conditions** 



# **Appendix C**

1) EPA PCB Cleanup and Disposal Approval Letter



Robert Saunders

CREC Construction Division - Senior Project Manager

108 Charter Oak Avenue Hartford, Connecticut 06106 Office Phone: 860.509.3722

Cell Phone: 860.706.9859 Isaunders@creu.org

www.crecconstruction.org

April 4, 2013

Ms. Kimberly Tisa
PCB Coordinator
U.S. Environmental Protection Agency
Region 1
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, MA 02109-3912

RE: 176 Cumberland Avenue, Wethersfield, Connecticut

PCB Cleanup and Disposal Approval

Dear Ms. Tisa:

We have received and reviewed the PCB Cleanup and Disposal Approval letter dated March 27, 2013 for the PCB Self-Implementing On-Site Cleanup and Disposal Plan prepared by Fuss & O'Neill EnviroScience, LLC in regard to the removal of PCB contaminants from the Site building.

We acknowledge and accept the conditions of the approval letter and hope to move forward with this project. Currently, all work is scheduled to begin the beginning of May/June 2013.

We have attached the required certification for the laboratories, Phoenix Environmental Laboratories, Inc. and Con-Test Analytical Laboratory. The abatement contractor will be determined once the project has gone out to bid and a contractor is chosen. The contractor who is awarded the project will sign off on the SIDP and submit the required contractor work plan.

We will forward the contractor work plan prepared for the work when the abatement contractor is chosen and provide the plan prior to June 2013.

Thank you for your attention to this matter. If you have any questions with regard to the plan, please contact Kathleen Pane at 860-646-2469 ext. 5585 or via email at kpane a fando com.

Sincerely.

Mr. Robert Saunders

Project/Program Manager/Capital Region Education Council

Phone: 860-509-3732, email: rsaunders@crec.org



# Appendix C

2) Contractor Acceptance Letter

## Acknowledgement of PCB Cleanup and Disposal Plan Approval

The undersigned has reviewed the Self Implementing On-Site Cleanup and Disposal Plan dated November 13, 2012, unost recently revised March 7, 2013 as prepared by Luss & O'Neill EnviroScience, LLC for the CREC-Discovery Academy located at 176 Cumba rland Avenue, Wethersfield, Connecticut, and the U.S. Environmental Protection Agency (USEPA) letter dated March 27, 2013 approving the plans with conditions.

Weise Construction, Inc. understands the requirements of the plan and the conditions and agrees to abude by the requirements of said document in the performance of the work for PCB cleanup at CREC-Discovery Academy, Wethersfield, Connecticut.

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Contractor Printed Name)	-
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# **Appendix C**

3) Contractor Work Plan

Tel: 860-889-4973

Mel@wiese-construction.com

Fax: 860-889-5035

Wiese Construction, Inc. 282 Franklin Street Norwich, CT 06360

# SITE SPECIFIC PCB REMEDIATION & SAFETY PLAN

Date: September 23, 2013

General Information Scope and Applications Worker Protection

Site Location: Future CREC Discovery Academy 176 Cumberland Avenue Wethersfield, CT 06109

### REMEDIATION PLAN OVERVIEW:

This plan has been developed for the remediation of PCB-affected caulk, building materials, brick and soil encountered during the implementation of the Future CREC Discovery Academy Renovation and partial Demolition project. Throughout the implementation process and upon its completion, each step of the remediation will be evaluated to determine whether any plan modifications should be made prior to continuing with the remedy implementation in other areas.

The self-implementing cleanup and disposal plan proposed herein is a combination of a removal and off-site disposal of PCB bulk waste under 40 CFR 761.62, the self-implementing cleanup and disposal plan will be strictly followed in accordance with the Owner's representative. All remediation workers and persons having business in the designated work areas shall abide by the remediation contractors HASP criteria and wear OSHA-approved PPE for applicable work. All workers per the HASP plan shall be trained per OSHA and US EPA requirements, have medical clearance and recently received pulmonary function tests and be fit tested by a trained professional. All respirator and PPE equipment shall be OSHA approved. Abatement products and equipment shall be approved by the Owner's representative prior to use and shall be compliant with industry standards. Emergency equipment including but not limited to Fire Extinguishers, First Aid Kits and Posted Emergency contact information per CFR specs shall be

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Mel@wiese-construction.com

Fax: 860-889-5035

on site, in plain sight, at all times - in accordance with 29 CFR 1910.157 & 29 CFR 1910.1951, respectively.

### General Site Information:

The Site is currently a vacant commercial structure and will undergo partial demolition and gut renovation to be the future Site of the Discovery Academy School. . The Site is owned by Capitol Region Education Council (CREC) and is according to assessor field card it is 116,279 square feet in size.

### Scope of Work:

Wiese Construction Inc. has read the PCB Cleanup and Disposal Approval under 40 CFR § 761.61 (a); and § 761.79(h) "self-implementing plan to address PCB caulk and building materials" as well as all supporting documents provided by Fuss & O'Neill EnviroScience, LLC. Based on the provided documents and approvals the scope of work is understood as follows:

- Remove exterior window/door, interior expansion wall/floor joint, and exterior pink PCB
  caulk from the main building and garage, and the exterior window/door caulk from the
  south building for disposal PCB bulk product waste.
- 2. Remove porous and non-porous surfaces in contact with the PCB caulk (e.g., window/door assemblies, and 8 inches (1 course) exterior brick and 8 inches (1/2 course) concrete block) for disposal as PCB bulk product waste.
- 3. Decontaminate non-porous surfaces (i.e., steel lintels) that will remain to a less than or equal to (≤) 1μg/100 cm² PCB cleanup standard.
- 4. Remove bulk PCB remediation waste (i.e., soils in Areas 5, 10, and 15 to a depth of 4 inches, and Areas 4 and 6 to a depth of 8 inches) within 60 inches of the building foundation an dispose of as a less than (<) 50 ppm PCB waste in a RCRA non-hazardous waste landfill in accordance with § 761.61(a)(5)(i)(B)(2)(ii)</p>
- Conduct verification sampling for porous surfaces and soils in accordance with 40 CFR 761 Subpart O, and Subpart P for non-porous surfaces.

### Sequencing of Work:

Tel: 860-889-4973

Mel@wiese-construction.com

Fax: 860-889-5035

### PCB Bulk Product Waste Removal - Garage/Main Building

- PCB-01 Remove existing exterior window and door caulking at all masonry window and door openings form the garage/main building for disposal as PCB Bulk Product Waste ≥ 50 ppm.
- PCB-02 Remove existing interior expansion/wall joint caulking at all identified locations from the garage building for disposal as PCB Bulk Product Waste ≥ 50 ppm.
- PCB-03 Remove existing interior floor joint caulking at identified locations from the garage building for disposal as PCB Bulk Product Waste ≥ 50 ppm.
- PCB-04 Remove existing exterior pink building joint caulking at identified locations from the main building for disposal as PCB Bulk Product Waste ≥ 50 ppm.
- PCB-05 Removal and off-site disposal of non-porous metal window assemblies including glass, PCB containing glazing compounds, panels, insulation etc. from all locations from the garage/main building for disposal as PCB Bulk Product Waste ≥ 50 ppm.
- PCB-06 Remove existing exterior brick veneer at all masonry window and door openings from the garage/main building for disposal as PCB Bulk Product Waste ≥ 50 ppm. Exterior brick and concrete block shall be removed in a vertical line at closest vertical mortar joint cutting whole bricks/blocks as necessary and removed in their entirety from location of caulk joint. This shall be a minimum of 8" from the caulk joint. In addition, remove existing interior block/concrete associated with interior wall/floor joints in the garage for disposal as PCB Bulk Product Waste ≥ 50 ppm. This shall be a minimum of 8" from the caulk joint. This interior substrate was not sampled and assumed to be PCB Bulk Product Waste ≥ 50 ppm.

### PCB Bulk Product Waste Removal - South Building

- PCB-07 Remove existing exterior window and door caulking at all masonry window and door openings from the south building for disposal as PCB Bulk Product Waste ≥ 50 ppm.
- PCB-08 Removal and off-site disposal of non-porous metal window and door assemblies including glass, PCB containing glazing compounds, panels, insulation etc. from all locations from the south building identified.

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Fax: 860-889-5035

Mel@wiese-construction.com

### Bulk PCB Remediation Waste Removal - Garage/Main Building/South Building

PCB-09 - Remove PCB contaminated soil from Area 5, Area 10, Area 15 to noted depths (0-4 inches) and Area 4 and Area 6 to noted depths (4-8 inches) for disposal as Bulk PCB Remediation Waste < 50 ppm. Post verification sampling shall be collected along the edge of the foundation in locations of prior samples and at 5 feet from the perimeter to ensure that no contamination of soils has resulted as a result of the remediation and removal work.

PCB-10 - Non-porous surfaces (exterior steel beam/lintel) shall be cleaned to standard of  $\leq$  1 µg/100 cm<sup>2</sup>.

### Worker Training & Protection:

Work will be performed as described in the scope of work by qualified, trained, and licensed personnel in accordance with all OSHA, EPA, CTPDH and CTDEEP requirements. For work crews performing PCB abatement, the crew foreman will have successfully completed 40-Hour Hazwoper training in accordance with 29 CFR 1910.120. Other workers will have a minimum of 24-hour training for work on hazardous waste sites. Site-specific training will be conducted on site prior to the start of the project to orient workers to site-specific hazards. Licenses, training certifications and qualifications will be submitted prior to start of the project. Work will be performed in accordance with all OSHA, EPA, CTDPH and CTDEEP requirements.

Wiese Construction, Inc., will designate a full-time Project Health & Safety Officer to the site. The Project Health & Safety Officer will hold a current CT asbestos supervisor license and EPA certificate and have a minimum of eight (8) hours of supervisor training in hazardous waste site operations in accordance with the requirements of 29 CFR 1910. The Project Health & Safety Officer will meet the requirements of a "Competent Person" as defined by OSHA 1926.1101 and will have a minimum of two (2) year's experience as a supervisor over PCB-related work.

### Worker Protection and Containment Control:

All persons entering the abatement area shall wear, as a minimum, a hooded full-body protective suit gathered at the wristband and ankles, protective shoe coverings, and an approved respirator. This level of prescribed protective clothing must be maintained until the final inspection and monitoring deems the containment area to be free of risks. Respirator cartridges for demolition and abatement of PCB-containing materials on this project will consist of combination HEPA and organic vapor cartridges. This and other personal-protective equipment will be provided to the employees of Wiese Construction, Inc.

Tel: 860-889-4973

Mel@wiese-construction.com

Fax: 860-889-5035

Wiese Construction Inc. will follow the marking requirements on containment areas as identified (see attached containment diagram).

WARNING
HAZARDOUS WASTE WORK AREA
PCBs-POISON
NO SMOKING, EATING OR DRINKING
AUTHORIZED PERSONNEL ONLY
PROTECTIVE CLOTHING REQUIRED IN THIS AREA

Containment areas shall be marked with appropriate warning signs in English and the predominant language of the abatement crew. Before leaving the work area each person shall: vacuum or wet-wipe any gross contamination from protective clothing, proceed to the Decontamination (Decon) Unit and remove all clothing except respirator. While still wearing the respirator, the worker shall proceed naked to the shower and clean the respirator and self, using soap and water, and rinse self in the shower. All PPE will be disposed of be disposed of in a receptacle for hazardous waste. All waste water will be disposed of in accordance with 40 CFR 761.61(a)(5)(iv).

Following showering and drying off, each person shall proceed directly to the Clean Room and dress in street clothes at the end of each day's work or before eating or taking a break. Smoking, drinking, eating, or chewing gum or tobacco in the abatement area is strictly prohibited.

### Work Area Preparation and Procedure (Exterior/Interior Building Material):

Prior to initiating PCB Removal the following site controls will be implemented (see attached figure with location of fenced storage area).

- Remediation Contractor shall prepare a Health & Safety Plan (HASP) developed specific
  to the site and work activities to be performed. All workers shall follow applicable
  federal and state regulation with regard to work activities, including but not limited to
  OSHA regulation including personal protection and respiratory protection requirements.
- Prior to any soil removal work, the boundaries of the excavation area shall be marked, properly secured, and a permit number obtained from "Call Before You Dig" shall be obtained.
- The project site shall be enclosed by a temporary construction fence. During all
  remediation activities, Remediation Contractor shall maintain control of all entrances and
  exits to the project site to ensure only authorized personnel enter the work areas and are

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afforded proper personal protective equipment and as required respiratory protection. All approaches to work areas shall be demarcated with appropriately worded warning signs.

- Work zones shall be established in accordance with technical specification to include abatement zone, decontamination zone and support zone.
- Ground protection to prevent debris from escaping the abatement zone and to protect areas outside of abatement zone from PCB contamination shall be utilized. Protection shall include the use of water impervious membrane covering which shall be secured to the ground surface. Edges shall be raised to prevent water run-off used for dust control during cutting and demolition of structures. The membrane shall be covered with a single layer of 6-mil polyethylene sheeting securely fastened to foundation. Refer to technical specification section for requirements.
- Isolation barriers shall be installed on interior side of window and door systems to isolate
  these systems to the building exterior where work shall be performed. Protection shall
  include two layers of 6-mil polyethylene sheeting securely affixed to the inside finish
  surfaces of walls to isolate window or door systems to the building exterior. Refer to
  technical specification section for requirements.
- Isolation barriers shall be installed on exterior side of window and door systems to
  contain these systems where work shall be performed to minimize dispersal of dust and
  debris. Protection shall include two layers of 6-mil polyethylene sheeting securely
  affixed to the exterior side finish surfaces to contain window or door systems. To
  minimize dust and debris contractor shall utilize negative pressure containment with use
  of negative air filtration units with HEPA filtration. Refer to technical specification
  section for requirements.
- Isolation barriers shall be installed in the interior of rooms containing floor and interior wall joints where work shall be performed to minimize dispersal of dust and debris. Protection shall include two layers of 6-mil polyethylene sheeting securely affixed to the exterior side finish surfaces to contain window or door systems. To minimize dust and debris contractor shall utilize negative pressure containment with use of negative air filtration units with HEPA filtration. Refer to technical specification section for requirements.
- Isolation barriers shall be installed on exterior side of expansion joints to contain these
  systems where work shall be performed to minimize dispersal of dust and debris.
  Protection shall include two layers of 6-mil polyethylene sheeting securely affixed to the
  interior side finish surfaces to contain expansion joints. To minimize dust and debris

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contractor shall utilize negative pressure containment with use of negative air filtration units with HEPA filtration. Refer to technical specification section for requirements.

- All other openings to the building interior such as unit ventilation, ducts, and grilles shall be securely sealed with a single layer of 6-mil polyethylene sheeting from the building exterior. Refer to technical specification section for requirements.
- Ground protection and isolation barriers shall remain in place throughout work to collect
  dust and debris resulting from PCB Bulk Product Waste removal and Bulk PCB
  Remediation Waste removal. All debris generated during operations including but not
  limited to visible caulking, dust and debris shall be HEPA vacuumed continuously
  throughout the work shift and at the end of a work shift to avoid accumulation. Any tears
  or rips that occur in protections shall be repaired or removed and replaced with new
  protections.
- It is anticipated that to facilitate the work movable staging or lifts will be utilized to
  access window systems. Wind screens consisting of 6-mil polyethylene sheeting shall be
  applied to staging or lift to prevent dispersal of dust and debris beyond the abatement
  zone. Platforms shall also be protected as appropriate to facilitate cleaning of dust and
  debris but not introduce trip or slip hazards.
- All equipment utilized to perform cutting, or demolition of adjacent materials shall be equipped with appropriate dust collection systems.
- All surfaces adjacent to materials removed shall be properly decontaminated upon completing the removal of PCB Bulk Product Waste. The work to cut and remove Bulk Product Waste will result in dust on surfaces to remain and this dust may contain PCBs. All visible dust shall be removed using HEPA vacuums and wet cleaning methods with solvent or other acceptable products.
- Appropriate PCB waste containers shall be placed adjacent to abatement zones.
   Containers shall be lined covered and secured. The PCB waste containers shall be properly marked as described in 40 CFR part 761.40 and 761.45.
- PCB storage area will be lockable and clearly marked as PCB waste. Storage area will be kept locked at all times.

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### Tools/Equipment Decontamination:

Prior to the removal of any equipment (e.g. lift equipment, concrete cutting blades, hand tools, scaffolding) from various Abatement Zones, the equipment will be decontaminated. At a minimum, this decontamination will include brushing all loose materials from equipment. The Contractor will collect wipe samples from decontaminated surfaces. In the event that wipe sample results indicated that equipment is PCB contaminated, more aggressive decontamination will be used. Equipment will be rinsed with hexane followed by scrubbing with detergent/water solution followed by rinsing with a methanol solution followed by a water rinse. Decontamination liquids will be disposed of as per 40 CFR 761.61(a)(5)(iv). Cleaning materials such as rags, etc., will be disposed of as PCB Remediation Waste ≥50 ppm.

### Hazardous Material Storage and Disposal:

This section describes the on-site temporary storage of PCBs wastes and lists the disposal facilities selected for transport and disposal of the wastes at this time, lined, and covered waste containers (roll-off containers or equivalent) or 55-gallon DOT-approved containers will be staged for the collection of PCB wastes generated during the work activities in accordance with 40 CFR 761.65. The roll-off containers will be staged near the work areas. All containers will be properly labeled and marked in accordance with 40 CFR 761.40 with stickers.

- PCB remediation waste (< 50 ppm) (Soils) will be segregated for disposal and transported under a Bill of Lading and disposed of at the E.Q. Wayne Michigan, Wayne, MI.
- PCB Bulk Product Waste will be segregated for disposal and transported under a Bill of Lading and disposed of at the Minerva Landfill in Waynesburg, OH.

Any water generated during decontamination (or as part of dust suppression) that is collected on polyethylene sheeting will be containerized on site, sampled, and designated for off-site disposal in accordance with 40 CFR § 761.61(b)(1) or decontaminated to levels in accordance with 40 CFR 761.61(a)(4)(iv) at Veolia ES Technical Solutions of Flanders, NJ. Wiese Construction, Inc., will be responsible for all packaging, labeling, transport, disposal and record-keeping associated with PCB waste in accordance with all Federal, State and Local regulations.

A representative of the Owner will sign all manifests and bills of lading for all waste. Wiese Construction, Inc., will provide to the transporter at the time of transfer appropriate shipping records as required by Federal, State and Local regulations with a copy to the project engineer.

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Wiese Construction, Inc, will maintain proper follow-up procedures to assure that waste materials have been received by the designated waste site in a timely manner and in accordance with all Federal, State and Local regulations.

Wiese Construction, Inc., will assure that disposal of PCB waste is at a facility approved to accept such waste and shall provide a tracking manifest form signed by the landfill's authorized representative.

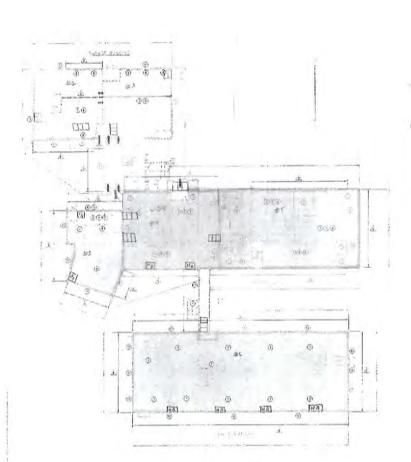
# Contamment Tragram

PCB Containing Chill

Esolation on res

expertising Support with that to Road

English W. Fr. 131



PCB PLAN

Area of Exterior PCB Carilli Scheduled for Remediation
Waste Container Storage Area

Area of PCB Soils Scheduled for Remediation
 Area of Wall & Floor Caulk Joint Scheduled for Remediation

. Decontemination System to be utilized at all areas of remediation

. All soulpment & tools to be decontaminated prior to leaving work area

was a transport and red before leaving work area

. Waste containers to be kept inside loced chain link enclosure

CREC Discovery Academy.
I'm Connection Academy
Introduced Control
Statement of Control
FUSS & O'NEILL

B3 Dosusiniti - Fer

HM-002



# Appendix C

4) Laboratory Notification Acceptance Letter

### Acknowledgement of PCB Cleanup and Disposal Plan Approval

The undersigned has reviewed the Self-Implementing On-Site Cleanup and Disposal Plan dated November 13, 2012 and Revised on February 22, 2013 and March 7, 2013 as prepared by Fuss & O'Neill EnviroScience, LLC for the Capital Region Education Council (CREC) Discovery Academy located at 176 Cumberland Avenue in Wethersfield, CT, and the U.S. Environmental Protection Agency (USEPA) letter dated March 27, 2013 approving the plans with conditions.

Con-Test Analytical Laboratory understands the requirements of the plan and the conditions and agrees to abide by the requirements of said document in the performance of the work for PCB cleanup at Discovery Academy in Wethersfield, CT.

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Date					
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ast	Long	unciedo	w, MA	T.	01029

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Phoenix Environmental Laboratories understands the requirements of the plan and the conditions and agrees to abide by the requirements of said document in the performance of the work for PCB cleanup at Discovery Academy in Wethersfield, CT.

Laboratory Representative Signature

Laboratory Representative Printed Name

Laboratory Address

Laboratory Address

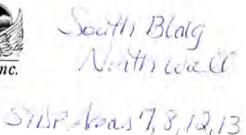
Laboratory Address



# **Appendix D**

1) Bulk Verification Sampling Results





Wednesday, March 05, 2014

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Project ID: DISCOVERY ACADEMY Sample ID#s: BG13708 - BG13725

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #MA-CT-007 ME Lab Registration #CT-007 NH Lab Registration #213693-A.B

NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 VT Lab Registration #VT11301



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 05, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	Custody Information		Time
Matrix:	SOLID	Collected by:	sv	<u>Date</u> 02/27/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/27/14	15:38
Rush Request:	72 Hour	Analyzed by:	see "By" below	421 23/10/2	12722

aboratory Data

SDG ID: GBG13708

Phoenix ID: BG13708

Project ID: DISCOVERY ACADEMY

20110979A2E

Client ID: 022714-SV-01

P.O.#:

Percent Solid         99         %         02/27/14           Extraction for PCB         Completed         02/27/14           PCB (Soxhlet)         PCB-1016         ND         0.49         mg/kg         02/28/14           PCB-1221         ND         0.49         mg/kg         02/28/14		
Extraction for PCB         Completed         02/27/14           PCB (Soxhlet)         ND         0.49         mg/kg         02/28/14           PCB 1016         ND         0.49         mg/kg         02/28/14	1	E160,3
PCB-1016 ND 0.49 mg/kg 02/28/14	PP/X	
PCB-1016 ND 0.49 mg/kg 02/28/14		
000 4004	AW	3540C/8082
	AW	3540C/8082
PCB-1232 ND 0.49 mg/kg 02/28/14	AW	3540C/8082
PCB-1242 ND 0.49 mg/kg 02/28/14	AW	3540C/8082
PCB-1248 ND 0.49 mg/kg 02/28/14	AW	3540C/8082
PCB-1254 ND 0.49 mg/kg 02/28/14	AW	3540C/8082
PCB-1260 ND 0.49 mg/kg 02/28/14	AW	3540C/8082
PCB-1262 ND 0.49 mg/kg 02/28/14	AW	3540C/8082
PCB-1268 ND 0.49 mg/kg 02/28/14	AW	3540C/8082
QA/QC Surrogates	(4.15)4	22/23/3002
% DCBP 93 % 02/28/14	AW	30 - 150 %
% TCMX 99 % 02/28/14	AW	30 - 150 %

Client ID: 022714-SV-01

Phoenix I.D.: BG13708

RL

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 05, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	nation	Date	Time
Matrix:	SOLID	Collected by:	sv	02/27/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/27/14	15:38
Rush Request:	72 Hour	Analyzed by:	see "By" below		7,14,03

Rush Request: 72 Hour P.O.#:

20110979A2E

aboratory Data

SDG ID: GBG13708

Phoenix ID: BG13709

Project ID:

DISCOVERY ACADEMY

Client ID: 022714-SV-02

RL Parameter Result POL Units Date/Time Reference Percent Solid 98 % 02/27/14 E160.3 Extraction for PCB Completed 02/27/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.51 mg/kg 02/28/14 AW 3540C/8082 PCB-1221 ND 0.51 mg/kg 02/28/14 3540C/8082 PCB-1232 ND 0.51 mg/kg 02/28/14 3540C/8082 PCB-1242 ND 0.51 mg/kg 02/28/14 AW 3540C/8082 PCB-1248 ND 0.51 mg/kg 02/28/14 AW 3540C/8082 PCB-1254 ND 0.51 mg/kg 02/28/14 AW 3540C/8082 PCB-1260 ND 0.51 mg/kg 02/28/14 3540C/8082 AW PCB-1262 ND 0.51 mg/kg 02/28/14 3540C/8082 AW PCB-1268 ND 0.51 mg/kg 02/28/14 3540C/8082 QA/QC Surrogates % DCBP 87 % 02/28/14 AW 30 - 150 % % TCMX 93 % 02/28/14

30 - 150 %

Client ID: 022714-SV-02

Phoenix I.D.: BG13709

RL

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

if there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 05, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Location Code:

F&O-PCB

Rush Request: P.O.#:

72 Hour

20110979A2E

Custody Information

aboratory Data

Collected by:

Received by:

Analyzed by:

SV

SW

see "By" below

02/27/14

<u>Time</u> 0:00

02/27/14

Date

15:38

SDG ID: GBG13708 Phoenix ID: BG13710

Project ID:

DISCOVERY ACADEMY

Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	96		%	02/27/14	1	E160.3
Extraction for PCB	Completed			03/03/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
QA/QC Surrogates			1,27,2		- 10-07	132/22/33/33/33
% DCBP	108		%	03/04/14	AW	30 - 150 %
% TCMX	99		%	03/04/14	AW	30 - 150 %
						7.4.7

Client ID: 022714-SV-03

Phoenix I.D.: BG13710

RL

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 05, 2014



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Analysis Report

March 05, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

Custody Information

Collected by:

SV

Date 02/27/14 **Time** 0:00

SW

02/27/14

15:38

Analyzed by:

Received by:

see "By" below

aboratory Data

SDG ID: GBG13708

Phoenix ID: BG13711

Project ID:

DISCOVERY ACADEMY

Client ID:

		RL/				
Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/27/14	T. F.	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates			4.4			
% DCBP	86		%	02/28/14	AW	30 - 150 %
% TCMX	90		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-04

Phoenix I.D.: BG13711

RL

Parameter Result PQL Units Date/Time By Reference

## RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 05, 2014



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Analysis Report

March 05, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

SOLID

F&O-PCB

Location Code:

Matrix:

72 Hour

Rush Request: P.O.#:

20110979A2E

Custody Information
Collected by: SV

Received by:

SV

SW

02/27/14 02/27/14 0:00

02/27/1

Date

15:38

Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBG13708

Phoenix ID: BG13712

Project ID:

DISCOVERY ACADEMY

Client ID:

022714-SV-05

RL

Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/27/14	-00	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0,5	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/28/14	AVV	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	89		%	02/28/14	AW	30 - 150 %
% TCMX	88		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-05

Phoenix I.D.: BG13712

RL

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 05, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

Collected by:

Date 02/27/14 Time 0:00

Location Code:

F&O-PCB

SV SW

02/27/14

15:38

Rush Request:

72 Hour

Received by: Analyzed by:

see "By" below

P.O.#:

Matrix:

20110979A2E

aboratory Data

Custody Information

SDG ID: GBG13708

Phoenix ID: BG13713

Project ID:

DISCOVERY ACADEMY

Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/27/14	1	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	84		%	02/28/14	AW	30 - 150 %
% TCMX	87		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-06

Phoenix I.D.: BG13713

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 05, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID F&O-PCB

Location Code: Rush Request:

72 Hour

P.O.#:

20110979A2E

**Custody Information** 

Received by:

Collected by:

SV

SW

02/27/14

Date

Time 0:00

02/27/14

15:38

Analyzed by: see "By" below

aboratory Data

SDG ID: GBG13708

Phoenix ID: BG13714

Project ID:

DISCOVERY ACADEMY

Client ID:

		RL/				
Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/27/14	1	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.38	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.38	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.38	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.38	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.38	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.38	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.38	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.38	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.38	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	66		%	02/28/14	AW	30 - 150 %
% TCMX	69		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-08

Phoenix I.D.: BG13714

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

## Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 05, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

SOLID

F&O-PCB

Location Code:

Rush Request:

72 Hour

P.O.#:

Matrix:

20110979A2E

Custody Information

SV

Date 02/27/14 Time 0:00

Received by:

SW

02/27/14

15:38

Analyzed by:

Collected by:

see "By" below

aboratory Data

SDG ID: GBG13708

Phoenix ID: BG13715

Project ID:

DISCOVERY ACADEMY

Client ID:

HORMAGO.	1,247,41	RL/	14.475	WITTEN TO	×	
Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/27/14	1	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	72		%	02/28/14	AW	30 - 150 %
% TCMX	51		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-09

Phoenix I.D.: BG13715

RL

Parameter PQL Result Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 05, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

Custody Information

sv

<u>Date</u> 02/27/14 <u>Time</u> 0:00

SW

3VV

02/27/14

15:38

Received by: Analyzed by:

Collected by:

see "By" below

**Laboratory Data** 

SDG ID: GBG13708

Phoenix ID: BG13716

Project ID:

**DISCOVERY ACADEMY** 

Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	97		%	02/27/14	1	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	76		%	02/28/14	AW	30 - 150 %
% TCMX	75		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-10

Phoenix I.D.: BG13716

RL/

Parameter PQL Result Units Date/Time Ву Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 05, 2014

FOR: Attn: Ms Kathleen Pane

SW

see "By" below

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information **Custody Information** Date Matrix: SOLID Collected by: SV

Received by:

Analyzed by:

02/27/14 02/27/14 Time 0:00 15:38

Location Code: F&O-PCB 72 Hour

Rush Request: P.O.#:

20110979A2E

aboratory Data

SDG ID: GBG13708

Phoenix ID: BG13717

Project ID:

DISCOVERY ACADEMY

Client ID: 022714-SV-11

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/27/14	-1-	E160,3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	79		%	02/28/14	AW	30 - 150 %
% TCMX	81		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-11

Phoenix I.D.: BG13717

RL

Parameter PQL Units Result Date/Time Ву Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 05, 2014

FOR: Att

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	<u>ation</u>	Custody Inform	<u>nation</u>	Date	Time
Matrix:	SOLID	Collected by:	SV	02/27/14	0:00
Location Code:	F&O-PCB	Received by:	SW	02/27/14	15:38

Rush Request: 72 Hour Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBG13708

Phoenix ID: BG13718

Project ID: DISCOVERY ACADEMY

20110979A2E

Client ID: 022714-SV-12

P.O.#:

RL Parameter PQL Result Units Date/Time By Reference Percent Solid 99 % 02/27/14 E160,3 Extraction for PCB Completed 02/27/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1221 ND 0.33 mg/kg 02/28/14 3540C/8082 AW PCB-1232 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1242 ND 0.33 02/28/14 mg/kg AW 3540C/8082 PCB-1248 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1254 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1260 ND 0.33 02/28/14 3540C/8082 mg/kg AW PCB-1262 ND 0.33 02/28/14 mg/kg AW 3540C/8082 PCB-1268 ND 0.33 02/28/14 mg/kg 3540C/8082 QA/QC Surrogates % DCBP 102 % 02/28/14 AW 30 - 150 % % TCMX 76 % 02/28/14 AW 30 - 150 %

Client ID: 022714-SV-12

Phoenix I.D.: BG13718

RL

Parameter PQL Result Units Date/Time By Reference

## RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 05, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix: SOLID

F&O-PCB Location Code: 72 Hour

Rush Request: P.O.#:

20110979A2E

**Custody Information** Collected by:

SW

see "By" below

Date 02/27/14

02/27/14

Time 0:00 15:38

Received by: Analyzed by:

SDG ID: GBG13708 Phoenix ID: BG13719

<u>aboratory Data</u> DISCOVERY ACADEMY

Project ID: Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	97	*****	%	02/27/14	- 1)	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	100		%	02/28/14	AW	30 - 150 %
% TCMX	87		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-13

Phoenix I.D.: BG13719

RL/

Parameter Result PQL Units Date/Time By Reference

## RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 05, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inforn	nation	Date	Time	
Matrix:	SOLID	Collected by:	SV	02/27/14	0:00	
Location Code:	F&O-PCB	Received by:	sw	02/27/14	15:38	

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979A2E Laboratory Data

Data SDG ID: GBG13708
Phoenix ID: BG13720

Project ID: DISCOVERY ACADEMY

Client ID: 022714-SV-14

RL Parameter PQL Result Units Date/Time By Reference Percent Solid 99 % 02/27/14 E160.3 Extraction for PCB Completed 02/27/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.49 mg/kg 02/28/14 AW 3540C/8082 PCB-1221 ND 0.49 mg/kg 02/28/14 3540C/8082 AW PCB-1232 ND 0.49 mg/kg 02/28/14 AW 3540C/8082 PCB-1242 ND 0.49 02/28/14 mg/kg AW 3540C/8082 PCB-1248 ND 0.49 mg/kg 02/28/14 3540C/8082 AW 0.49 PCB-1254 ND mg/kg 02/28/14 AW 3540C/8082 PCB-1260 ND 0.49 02/28/14 mg/kg AW 3540C/8082 PCB-1262 ND 0.49 02/28/14 mg/kg AW 3540C/8082 PCB-1268 ND 0.49 mg/kg 02/28/14 AW 3540C/8082 QA/QC Surrogates % DCBP 83 02/28/14 AW 30 - 150 % % TCMX 68 % 02/28/14 AW 30 - 150 %

Client ID: 022714-SV-14

Phoenix I.D.: BG13720

RL

Parameter PQL Units Result Date/Time Ву Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 05, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information Custody Information Time <u>Date</u> Matrix: SOLID Collected by: SV 02/27/14 0:00 Location Code: F&O-PCB Received by: SW 02/27/14 15:38

Rush Request: 72 Hour Analyzed by: see "By" below

<u>Laboratory Dat</u>

<u>aboratory Data</u> SDG ID: GBG13708
Phoenix ID: BG13721

Project ID: DISCOVERY ACADEMY

20110979A2E

Client ID: 022714-SV-15

P.O.#:

RL Parameter Result PQL Units Date/Time By Reference Percent Solid 99 % 02/27/14 E160.3 Extraction for PCB Completed 02/27/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1221 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1232 ND 0.33 mg/kg 02/28/14 3540C/8082 ND PCB-1242 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1248 ND 0.33 02/28/14 mg/kg 3540C/8082 AW PCB-1254 ND 0.33 AW mg/kg 02/28/14 3540C/8082 PCB-1260 ND 0.33 mg/kg 02/28/14 3540C/8082 PCB-1262 ND 0.33 02/28/14 mg/kg AW 3540C/8082 PCB-1268 ND 0.33 02/28/14 3540C/8082 mg/kg **QA/QC Surrogates** % DCBP 87 % 02/28/14 AW 30 - 150 % % TCMX 81 % 02/28/14 30 - 150 %

Client ID: 022714-SV-15

Phoenix I.D.: BG13721

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 05, 2014

FOR: Attn: Ms Kathleen Pane

> Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information Custody Information Date Time Matrix: SOLID Collected by: 02/27/14 SV 0:00 Location Code: F&O-PCB Received by: SW 02/27/14 15:38

Rush Request: 72 Hour Analyzed by:

see "By" below P.O.#: 20110979A2E

aboratory Data SDG ID: GBG13708 Phoenix ID: BG13722

Project ID: DISCOVERY ACADEMY

Client ID: 022714-SV-16

RL Parameter Result PQL Units Date/Time By Reference Percent Solid 99 % 02/27/14 E160.3 Extraction for PCB Completed 02/27/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1221 ND 0.33 mg/kg 02/28/14 3540C/8082 PCB-1232 ND 0.33 02/28/14 3540C/8082 mg/kg AW PCB-1242 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1248 ND 0.33 02/28/14 3540C/8082 mg/kg AW PCB-1254 ND 0.33 mg/kg 02/28/14 3540C/8082 AW PCB-1260 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1262 ND 0.33 02/28/14 mg/kg 3540C/8082 AW PCB-1268 ND 0.33 mg/kg 02/28/14 3540C/8082 QA/QC Surrogates % DCBP 78 % 02/28/14 AW 30 - 150 % % TCMX 81 % 02/28/14 AW 30 - 150 %

Client ID: 022714-SV-16

Phoenix I.D.: BG13722

RL

Parameter PQL Result Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 05, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information **Custody Information** Date Time Matrix: SOLID Collected by: SV 02/27/14 0:00 Location Code: F&O-PCB Received by: SW 02/27/14 15:38

Rush Request: 72 Hour Analyzed by: see "By" below

Laboratory Data

SDG ID: GBG13708

Phoenix ID: BG13723

Project ID: DISCOVERY ACADEMY

20110979A2E

Client ID: 022714-SV-17

P.O.#:

RL/ Parameter PQL Result Units Date/Time By Reference Percent Solid 99 % 02/27/14 E160.3 Extraction for PCB Completed 02/27/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.34 mg/kg 02/28/14 AW 3540C/8082 PCB-1221 ND 0.34 02/28/14 mg/kg AW 3540C/8082 PCB-1232 ND 3540C/8082 0.34 mg/kg 02/28/14 AW PCB-1242 ND 0.34 mg/kg 02/28/14 AW 3540C/8082 PCB-1248 ND 0.34 mg/kg 02/28/14 3540C/8082 AW PCB-1254 ND 0.34 mg/kg 02/28/14 AW 3540C/8082 ND 0.34 PCB-1260 02/28/14 mg/kg AW 3540C/8082 PCB-1262 ND 0.34 mg/kg 02/28/14 AW 3540C/8082 PCB-1268 ND 0.34 mg/kg 02/28/14 AW 3540C/8082 QA/QC Surrogates % DCBP 77 % 02/28/14 AW 30 - 150 % % TCMX 72 % 02/28/14 AW 30 - 150 %

Client ID: 022714-SV-17

Phoenix I.D.: BG13723

RL

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 05, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

Matrix:

20110979A2E

**Custody Information** 

sv

<u>Date</u> 02/27/14 <u>Time</u> 0:00

Received by:

SW

02/27/14

15:38

Analyzed by:

Collected by:

see "By" below

**Laboratory Data** 

SDG ID: GBG13708

Phoenix ID: BG13724

Project ID:

DISCOVERY ACADEMY

Client ID:

Parameter	D	RL/	(14.4)			2
Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/27/14	1	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	91		%	02/28/14	AW	30 - 150 %
% TCMX	86		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-18

Phoenix I.D.: BG13724

RL

Parameter Result PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 05, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 05, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	Date	Time	
Matrix:	SOLID	Collected by:	SV	02/27/14	0:00
Location Code:	F&O-PCB	Received by:	SW	02/27/14	15:38
Rush Request:	72 Hour	Analyzed by:	see "By" below		

Laboratory Data

SDG ID: GBG13708

Phoenix ID: BG13725

Project ID: DISCOVERY ACADEMY

20110979A2E

Client ID: 022714-SV-DUP

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/27/14	- 1	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates			MEMA			A-10/200716
% DCBP	92		%	02/28/14	AW	30 - 150 %
% TCMX	90		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-DUP

Phoenix I.D.: BG13725

RL

Result PQL

Units

Date/Time

Ву

Reference

## RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

Parameter

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 05, 2014

Reviewed and Released by: Bobbi Aloisa, Vice President



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

March 05, 2014

### QA/QC Data

SDG I.D.: GBG13708

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 267577, QC Sa	mple No: BG13270 (BG13	708, BG13709, BG	13710, 1	BG1371	1, BG	13712, 1	3G1371	3)		
Polychlorinated Bipheny								.3"		
PCB-1016	ND	112	119	6.1				40 - 140	30	
PCB-1221	ND	537.	1,000	1071				40 - 140	30	
PCB-1232	ND							40 - 140	30	
PCB-1242	ND							40 - 140	30	
PCB-1248	ND							40 - 140	30	
PCB-1254	ND							40 - 140	30	
PCB-1260	ND	139	145	4.2				40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	111	126	130	3.1				30 - 150	30	
% TCMX (Surrogate Rec) Comment:	115	122	126	3.2				30 - 150	30	
A LCS and LCS Duplicate were	performed instead of a matrix	spike and matrix spike	e duplica	te.						
QA/QC Batch 267681, QC Sa BG13721, BG13722, BG1372	mple No: BG13725 (BG13		The state of the s		7, BG	13718, E	3G1371	9, BG137	20,	
Polychlorinated Bipheny	rls - Solid									
PCB-1016	ND	89	95	6.5	78	85	8.6	40 - 140	30	
PCB-1221	ND	27	35	0.0		-	0,0	40 - 140	30	
PCB-1232	ND							40 - 140	30	
PCB-1242	ND							40 - 140	30	
PCB-1248	ND							40 - 140	30	
PCB-1254	ND							40 - 140	30	
PCB-1260	ND	109	108	0.9	96	95	1.0	40 - 140	30	
PCB-1262	ND	177	622	707	5-	2.2		40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	102	112	112	0.0	100	100	0.0	30 - 150	30	
% TCMX (Surrogate Rec)	92	102	100	2.0	88	93	5.5	30 - 150	30	

I = This parameter is outside laboratory lcs/lcsd specified recovery limits.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

March 05, 2014

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Sample Criteria Exceedences Report

GBG13708 - FO-PCB

Criteria

Phoenix Analyte

Acode

SampNo

\*\*\* No Data to Display \*\*\*

Wednesday, March 05, 2014

Criteria: None State: CT Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

R

Criteria

Analysis Units

RL Criteria

Result

# Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Labora	atory N	lame:	Phoen	iix Enviro	onmental Lab	s, Inc.	Client:		Fuss	& O'Neill,	Inc.	
Projec	t Loca	tion:	DISCO	VERY A	ACADEMY		Project	Number:				
Labora	atory S	ample	ID(s):	BG137	08, BG13709 15, BG13716 22, BG13723	6, BG13	3717, BG	13718, BG13	3712, I 3719, I	3G13713, 3G13720,	BG137 BG137	14, 21,
Sampli	ing Da	te(s):	2/27/2	014								
RCP M	lethod	s Used	:									
<u> </u>	1/1312	<b>601</b>	0	7000	7196		7470/7471	<b>8081</b>		☐ EPH		TO15
₩ 8082	2	□ 815	1 [	8260	8270		ETPH	9010/90	12	☐ VPH		
sp	pecified ny criter	QA/QC ia falling	perform outside	nance crit le of acce	enced in this la teria followed, ptable guidelir fidence Protoc	includir nes, as	ng the requ specified in	irement to ex	plain	✓ Yes	□No	
1a. W	Vere the	method	specifi	ed prese	rvation and ho	olding tir	ne require	ments met?		✓ Yes	□No	
1b. El	PH and ignifican	VPH me t modifie	ethods of cations	only: Wa (see sec	as the VPH or tion 11.3 of res	EPH me spective	thod cond RCP met	lucted without hods)	t	□Yes	□No	<b>☑</b> NA
2. W	/ere all s escribed	samples I on the	receivo associa	ed by the ated Chai	laboratory in a in-of-Custody	a condit docume	ion consis nt(s)?	tent with that		✓ Yes	□ No	
3. W	lere san	nples re	ceived	at an app	propriate tempe	erature	(< 6 Degre	es C)?		✓ Yes	□ No	□NA
					eria specified ee Section: PC			Confidence		☐ Yes	☑ No	. "
5a. W	/ere rep	orting lir	nits spe	acified or	referenced on	the cha	ain-of-custo	ody?		✓ Yes	□ No	
5b. W	/ere the	se repor	ting lim	nits met?						✓ Yes	□No	□NA
re	sults rep	ported fo	or all co	onstituents	nced in this la s identified in fidence Protoc	the met	hod-specif	ckage, were ic analyte list:	s	✓ Yes	□ No	□NA
7. Ar	re projec	ot-specif	ic matri	ix spikes	and laboratory	duplica	ates includ	ed in the data	a set?	✓ Yes	□No	□NA
be	e provid	ed in an	attache	d narrativ	onse was "No' re. If the answe Confidence".	' (with the price of the control of	ne exceptio estion #1, #	n of question : 1A or 1B is "N	#5a, #7) lo", the	, additiona data packa	l informal ge does r	tion must not meet
and be	elief an	d base	ed upo	n my pe	he pains and ersonal inqu t, such infor	iry of t	hose res	ponsible for	r prov	iding the		
Author	rizad		_		2 - 1			Date: V	Vedne	sday, Mar	rch 05, 2	2014
Signat	A decreased		the	tan	Lee		Print	ted Name: E	Ethan	Lee		
								Position: F	roject	Manager		



### Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

t Middle Turnpike, P.O.Box 370, Manchester, CT 060 Tel. (860) 645-1102 Fax (860) 645-0823



# **RCP Certification Report**

March 05, 2014

SDG I.D.: GBG13708

### **PCB Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 267577 (Samples: BG13708, BG13709, BG13710, BG13711, BG13712, BG13713): ----

The LCSD recovery is above the method criteria for PCB-1260. This analyte was not reported in the sample, therefore no significant bias is suspected.

Instrument:

Au-ecd1 02/28/14-1 (BG13718, BG13719, BG13720, BG13725)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds; none

**Printed Name** 

Adam Werner Chemist

Position: Date:

2/28/2014

Instrument:

Au-ecd5 02/28/14-1 (BG13708, BG13709, BG13710, BG13711, BG13714,

BG13715, BG13722)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name

Adam Werner

Position: Date: Chemist 2/28/2014

Instrument:

Au-ecd5 03/04/14-1 (BG13710)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name

Adam Werner

Position: Date: Chemist

Same

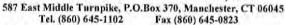
3/4/2014

Instrument:

Au-ecd8 02/28/14-1 (BG13712, BG13713, BG13716, BG13717)

8082 Narration:







# **RCP Certification Report**

March 05, 2014

SDG I.D.: GBG13708

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name

Adam Werner

Position:

Chemist

Date:

2/28/2014

QC Comments:

OC Batch 267577 02/26/14 (BG13708, BG13709, BG13710, BG13711, BG13712,

BG13713)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

### QC (Site Specific)

----- Sample No: BG13725, QA/QC Batch: 267681 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

### QC (Batch Specific)

----- Sample No: BG13270, QA/QC Batch: 267577 ------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: PCB-1260(145%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

### **Temperature Narration**

The samples in this delivery group were received at 3°C. (Note acceptance criteria is above freezing up to 6°C)



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **RCP Certification Report**

March 05, 2014

SDG I.D.: GBG13708



8

# FUSS & O'NEILL ENVIROSCIENCE, LLC

 50 Redfield Street, Suite 100, Boston, MA 02122
 275 Promenade Street, Suite 350, Providence, RI 02908
 80 Washington Street, Suite 301, Poughkeepsie, NY 12601 (days) Other (day LABORATORY days) 3 Days O 1 Day\* 146 Harford Road, Manchester, CT 06040

56 Quarry Road, Trumbull, CT 06611

1119 Richland Street, Columbia, SC 29201

78 Interstate Drive, West Springfield, MA 01089 PROJECT NUMBER 1333 CHAIN-OF-CUSTODY RECORD PROJECT LOCATION (860) 646-2469 • www.13andO.com Disciplines to Deliver

Comments PHOGNIX The ODDITION OF THE ODDITION O @ () Containers 20110979.42E LATHAGE COOR PLOT 13/708 176 CUMBERLAND AVE, WETHERSFIELD CT Request Analysis Time Date: 220-14 Date Sampled W=Waste A=Air Source P RAPIED Sampler's Signature: Clary Vennelett S=Soil B=Sediment PANE Sample Number 8 adilogna, Aae PW=Potable Water T=Treatment Facility 13371H REPORT TO: HATHLEEN Discovery Academy HARRON PROJECT NAME BRICK Transfer Check Source Codes: MW=Monitoring Well SW=Surface Warer m INVOICE TO: P.O. No.: X=Other No.

<b>D</b>	41ppm	NORTH WALL	(4) CONNECTOR WES VERTICAL (ACA)S	(2) EAST VERTICAL (AREA 8) (F) LIGHT VERTICAL (AREA 12)	Company of the compan
1	Reporting and Detection Limit Requirements:	2/27/1 15:38 Additional Comments (OL) South Blue, NoRTH WALL	20.0°-0.5" bayth	(2) EAST VERTICAL (ARCA 8)	EAST VERTICAL (Area T)
13/11/6	Reporting and Dete	3 Additional Commer	(USPAMPLE TO	2) CAST VER	3 CONNECTOR
/	Date Time	2127114 15:			
101-	Accepted By	LEDWON .			
	Relinquished By	Taylondewood			
101	Transfer Number	1 60	2	3	*

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NOT SUBMITTED

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13715



# FUSS & O'NEILL ENVIROSCIENCE, LLC

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So Redfield Street, Suite 100, Boston, MA 02122
 Z75 Promenade Street, Suite 350, Providence, RI 02908
 80 Washington Street, Suite 301, Poughkeepsis, NY 12601

(days)

O Other

1334

CHAIN-OF-CUSTODY RECORD

2012

OSPANPLE @ 0.0"-0.5" WORTH (ACONNECTOR WEST VERTICAL (ACON 8) Comments PHOGNI "Surcharge Applies LABORATORY **BB**  $\oplus \mathcal{O}$ Containers 88 9 000 NARTH WALL days) 3 Days\* <100m 15.38 Additional Comments (40) South Buxs 20110979,A2E O 1 Day\* Reporting and Detection Limit Requirements: PROJECT NUMBER TONING ESTER BOOK 13732 13723 13724 13720 3719 13721 1371 1371 372 176 CAMBERGAND AVE, WETTERSFIELD CT Request Analysis Time Date Time Date: 2-37-14 PROJECT LOCATION Date Sampled W=Waste A=Air Accepted By Source 15 9 200-〒 -13 13 1 1 89-Rebried S=Soil B=Sediment PANE Sample Number 15 T=Treatment Facility PW=Potable Water CATHLEEN HILEED DISCOVERY ACADEMY 201100/10 MARRON Relinquished By PROJECT NAME BRICK Sampler's Signature: Transfer Check MW=Monitoring Well m SW=Surface Water 0 INVOICE TO: REPORT TO: Source Codes: P.O. No.: X=Other . Transfer Number No. 9 3 1 C 1 E 0 90 0

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Client ID: 022514-SV-03

Phoenix I.D.: BG12667

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

February 28, 2014

FOR: Attn: Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information Custody Information Time Date 0:00 SV 02/25/14 Matrix: SOLID Collected by: Received by: Location Code: F&O-PCB LDA 02/25/14 15:25

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979.A2E Laboratory Date

aboratory Data SDG ID: GBG12665

Phoenix ID: BG12668

Project ID: DISCOVERY ACADEMY

Client ID: 022514-SV-04

RL/ PQL Parameter Result Units Date/Time By Reference Percent Solid 100 % 02/25/14 E160.3 Extraction for PCB Completed 02/27/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.49 02/28/14 AW 3540C/8082 mg/kg PCB-1221 ND 0.49 02/28/14 AW 3540C/8082 mg/kg PCB-1232 0.49 02/28/14 3540C/8082 ND mg/kg AW PCB-1242 ND 0.49 02/28/14 AW 3540C/8082 mg/kg PCB-1248 ND 0.49 02/28/14 AW 3540C/8082 mg/kg mg/kg 3540C/8082 PCB-1254 ND 0.49 02/28/14 AW PCB-1260 ND 0.49 mg/kg 02/28/14 AW 3540C/8082 PCB-1262 ND 0.49 02/28/14 AW 3540C/8082 mg/kg PCB-1268 ND 0.49 02/28/14 AW 3540C/8082 mg/kg QA/QC Surrogates 30 - 150 % 85 % 02/28/14 AW % DCBP % TCMX 90 % 02/28/14 AW 30 - 150 %

Page 7 of 24 Ver 1

Client ID: 022514-SV-04

Phoenix I.D.: BG12668

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 28, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Time Sample Information **Custody Information** Date Collected by: SV 02/25/14 0:00 Matrix: SOLID F&O-PCB Received by: LDA 02/25/14 15:25 Location Code:

Rush Request: 72 Hour Analyzed by: see "By" below

Laboratory Data

SDG ID: GBG12665

Phoenix ID: BG12669

Project ID: DISCOVERY ACADEMY

20110979.A2E

Client ID: 022514-SV-05

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/25/14	- U	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0,5	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	80		%	02/26/14	AW	30 - 150 %
% TCMX	72		%	02/26/14	AW	30 - 150 %

Page 9 of 24 Ver 1

Client ID: 022514-SV-05

Phoenix I.D.: BG12669

RL/

Parameter Result PQL Units Date/Time By Reference

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



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# **Analysis Report**

February 28, 2014

FOR: Attn: Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	nation	Date	<u>Time</u>
Matrix:	SOLID	Collected by:	sv	02/25/14	0:00
Location Code:	F&O-PCB	Received by:	LDA	02/25/14	15:25

72 Hour Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBG12665

Phoenix ID: BG12670

Project ID: DISCOVERY ACADEMY

20110979.A2E

Client ID: 022514-SV-06

Rush Request:

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/25/14	10	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	0.56	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	109		%	02/26/14	AW	30 - 150 %
% TCMX	111		%	D2/26/14	AW	30 - 150 %

Page 11 of 24 Ver

Client ID: 022514-SV-06

Phoenix I.D.: BG12670

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 28, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	nation	<u>Date</u>	Time
Matrix:	SOLID	Collected by:	SV	02/25/14	0:00
Location Code:	F&O-PCB	Received by:	LDA	02/25/14	15:25
Rush Request:	72 Hour	Analyzed by:	see "By" below		

Laboratory Data

SDG ID: GBG12665

Phoenix ID: BG12671

Project ID: **DISCOVERY ACADEMY** 

20110979.A2E

Client ID: 022514-SV-07

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time,	Ву	Reference
Percent Solid	100		%	02/25/14	1	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	54		%	02/26/14	AW	30 - 150 %
% TCMX	61		%	02/26/14	AW	30 - 150 %

Client ID: 022514-SV-07

Phoenix I.D.: BG12671

RL/

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis, Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 28, 2014

FOR: A

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Time **Custody Information** Date Sample Information 0:00 SV 02/25/14 Collected by: SOLID Matrix: 02/25/14 15:25 Received by: LDA F&O-PCB Location Code:

Rush Request: 72 Hour Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBG12665

Phoenix ID: BG12672

Project ID: DISCOVERY ACADEMY

20110979.A2E

Client ID: 022514-SV-08

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/25/14		E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	71		%	02/26/14	AW	30 - 150 %
% TCMX	. 78		%	02/26/14	AW	30 - 150 %

Client ID: 022514-SV-08

Phoenix I.D.: BG12672

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102

**Analysis Report** 

February 28, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

**Custody Information** 

Received by:

Analyzed by:

Collected by:

SV

LDA

see "By" below

Date 02/25/14 Time 0:00

02/25/14

15:25

20110979.A2E

aboratory Data

SDG ID: GBG12665

Phoenix ID: BG12673

Project ID:

DISCOVERY ACADEMY

Client ID:

022514-SV-09

PCB (Soxhlet)         PCB-1016       ND       0.34       mg/kg       02/26/14       AW       3540C/80         PCB-1221       ND       0.34       mg/kg       02/26/14       AW       3540C/80         PCB-1232       ND       0.34       mg/kg       02/26/14       AW       3540C/80         PCB-1242       ND       0.34       mg/kg       02/26/14       AW       3540C/80         PCB-1248       ND       0.34       mg/kg       02/26/14       AW       3540C/80         PCB-1254       ND       0.34       mg/kg       02/26/14       AW       3540C/80         PCB-1260       ND       0.34       mg/kg       02/26/14       AW       3540C/80         PCB-1262       ND       0.34       mg/kg       02/26/14       AW       3540C/80         PCB-1268       ND       0.34       mg/kg       02/26/14       AW       3540C/80         QA/QC Surrogates       %       02/26/14       AW       30 - 150	Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Extraction for PCB     Completed     02/25/14     PP/X     SW3540       PCB (Soxhlet)       PCB-1016     ND     0.34     mg/kg     02/26/14     AW     3540C/86       PCB-1221     ND     0.34     mg/kg     02/26/14     AW     3540C/86       PCB-1232     ND     0.34     mg/kg     02/26/14     AW     3540C/86       PCB-1242     ND     0.34     mg/kg     02/26/14     AW     3540C/86       PCB-1248     ND     0.34     mg/kg     02/26/14     AW     3540C/86       PCB-1254     ND     0.34     mg/kg     02/26/14     AW     3540C/86       PCB-1260     ND     0.34     mg/kg     02/26/14     AW     3540C/86       PCB-1262     ND     0.34     mg/kg     02/26/14     AW     3540C/86       PCB-1268     ND     0.34     mg/kg     02/26/14     AW     3540C/86       QA/QC Surrogates     %     02/26/14     AW     30 - 150	Percent Solid	98		%	02/25/14	7)	E160.3
PCB-1016 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1221 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1232 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1242 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1248 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1254 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1260 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1262 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1268 ND 0.34 mg/kg 02/26/14 AW 3540C/80		Completed			02/25/14	PP/X	SW3540C
PCB-1221 ND 0.34 mg/kg 02/26/14 AW 3540C/86 PCB-1232 ND 0.34 mg/kg 02/26/14 AW 3540C/86 PCB-1242 ND 0.34 mg/kg 02/26/14 AW 3540C/86 PCB-1248 ND 0.34 mg/kg 02/26/14 AW 3540C/86 PCB-1254 ND 0.34 mg/kg 02/26/14 AW 3540C/86 PCB-1260 ND 0.34 mg/kg 02/26/14 AW 3540C/86 PCB-1262 ND 0.34 mg/kg 02/26/14 AW 3540C/86 PCB-1268 ND 0.34 mg/kg 02/26/14 AW 3540C/86	PCB (Soxhlet)						
PCB-1232 ND 0.34 mg/kg 02/26/14 AW 3540C/86 PCB-1242 ND 0.34 mg/kg 02/26/14 AW 3540C/86 PCB-1248 ND 0.34 mg/kg 02/26/14 AW 3540C/86 PCB-1254 ND 0.34 mg/kg 02/26/14 AW 3540C/86 PCB-1260 ND 0.34 mg/kg 02/26/14 AW 3540C/86 PCB-1262 ND 0.34 mg/kg 02/26/14 AW 3540C/86 PCB-1268 ND 0.34 mg/kg 02/26/14 AW 3540C/86	PCB-1016	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
PCB-1242 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1248 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1254 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1260 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1262 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1268 ND 0.34 mg/kg 02/26/14 AW 3540C/80	PCB-1221	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
PCB-1248 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1254 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1260 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1262 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1268 ND 0.34 mg/kg 02/26/14 AW 3540C/80	PCB-1232	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
PCB-1254         ND         0.34         mg/kg         02/26/14         AW         3540C/80           PCB-1260         ND         0.34         mg/kg         02/26/14         AW         3540C/80           PCB-1262         ND         0.34         mg/kg         02/26/14         AW         3540C/80           PCB-1268         ND         0.34         mg/kg         02/26/14         AW         3540C/80           QA/QC Surrogates         %         02/26/14         AW         30 - 150	PCB-1242	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
PCB-1260 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1262 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1268 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1268 ND 0.34 mg/kg 02/26/14 AW 3540C/80 QA/QC Surrogates % DCBP 89 % 02/26/14 AW 30 - 150	PCB-1248	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
PCB-1262 ND 0.34 mg/kg 02/26/14 AW 3540C/80 PCB-1268 ND 0.34 mg/kg 02/26/14 AW 3540C/80 QA/QC Surrogates % DCBP 89 % 02/26/14 AW 30 - 150	PCB-1254	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
PCB-1268 ND 0.34 mg/kg 02/26/14 AW 3540C/80  QA/QC Surrogates % DCBP 89 % 02/26/14 AW 30 - 150	PCB-1260	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates         %         02/26/14         AW 30 - 150	PCB-1262	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates         89         %         02/26/14         AW         30 - 150	PCB-1268		0.34	mg/kg	02/26/14	AW	3540C/8082
	QA/QC Surrogates						
00 00 00 00 00 00 00 00 00 00 00 00 00	% DCBP	89		%	02/26/14	AW	30 - 150 %
% TCMX 92 % 02/26/14 AVV 30 - 150	% TCMX	92		%	02/26/14	AW	30 - 150 %

Client ID: 022514-SV-09

Phoenix I.D.: BG12673

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 28, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information **Custody Information** Date Time 0:00 SOLID Collected by: SV 02/25/14 Matrix: Received by: LDA 02/25/14 15:25 Location Code: F&O-PCB

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979.A2E Laboratory Data

SDG ID: GBG12665

Phoenix ID: BG12674

Project ID: DISCOVERY ACADEMY

Client ID: 022514-SV-10

Paraméter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/25/14	- 111	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.49	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.49	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.49	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.49	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.49	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.49	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.49	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.49	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.49	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	93		%	02/26/14	AW	30 - 150 %
% TCMX	93		%	02/26/14	AW	30 - 150 %

Page 19 of 24 Ver 1

Client ID: 022514-SV-10

Phoenix I.D.: BG12674

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

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Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 28, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

**Custody Information** Date Time Sample Information 0:00 SOLID Collected by: SV 02/25/14 Matrix: Received by: 02/25/14 15:25 Location Code: F&O-PCB LDA

Rush Request: 72 Hour Analyzed by: see "By" below

Laboratory Data

SDG ID: GBG12665

Phoenix ID: BG12675

Project ID: DISCOVERY ACADEMY

20110979.A2E

Client ID: 022514-SV-11

P.O.#:

RL/ Units Date/Time Reference Result PQL By Parameter E160.3 % 02/25/14 Percent Solid 99 02/25/14 PP/X SW3540C Extraction for PCB Completed PCB (Soxhlet) 3540C/8082 PCB-1016 0.33 02/26/14 AW ND mg/kg ND 0.33 02/26/14 AW 3540C/8082 PCB-1221 mg/kg 02/26/14 AW 3540C/8082 PCB-1232 ND 0.33 mg/kg 3540C/8082 02/26/14 AW PCB-1242 ND 0.33 mg/kg 3540C/8082 ND 0.33 mg/kg 02/26/14 AW PCB-1248 02/26/14 3540C/8082 0.33 AW PCB-1254 ND mg/kg ND 0.33 mg/kg 02/26/14 AW 3540C/8082 PCB-1260 3540C/8082 02/26/14 AW PCB-1262 ND 0.33 mg/kg 3540C/8082 ND 0.33 mg/kg 02/26/14 AW PCB-1268 **QA/QC Surrogates** 02/26/14 30 - 150 % 60 % AW % DCBP 02/26/14 AW 30 - 150 % 64 % % TCMX

Page 21 of 24 Ver 1

Client ID: 022514-SV-11

Phoenix I.D.: BG12675

RL/

Parameter Result PQL Units Date/Time By Reference

## RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 28, 2014

FOR: At

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	Custody Information		
Matrix:	SOLID	Collected by:	SV	02/25/14	0:00
Location Code:	F&O-PCB	Received by:	LDA	02/25/14	15:25
Rush Request:	72 Hour	Analyzed by:	see "By" below		

P.O.#: 20110979.A2E

Laboratory Data

SDG ID: GBG12665

Phoenix ID: BG12676

Project ID: DISCOVERY ACADEMY

Client ID: 022514-SV-12

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/25/14	1	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.69	mg/kg	D2/26/14	AW	3540C/8082
PCB-1248	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	86		%	02/26/14	AW	30 - 150 %
% TCMX	88		%	02/26/14	AW	30 - 150 %

Page 23 of 24 Ver 1

Client ID: 022514-SV-12

Phoenix I.D.: BG12676

RL/

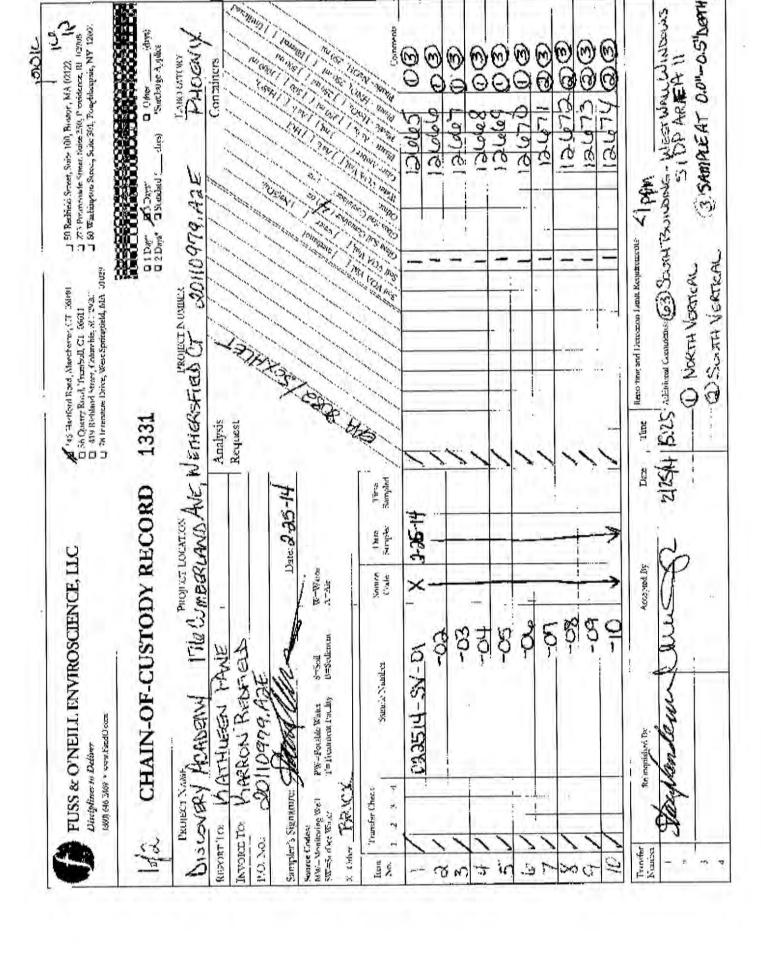
Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



15.7 Millional Concrete (63) South BOILDING- WESTLINKL. WINDOWS BSAMPLE COD" DEFTH 773 PACONIN VINCENIA 275 Francisco Sute., Suke 35%, Providence, R1 1229.38
 87Wischington Sacet, Suke 35, Pougakopsis, NY 12000. SIN FREA II Surdaye Apsiles U 30 Rothfeld Street, Suite 10, Boston, MA 52122 Contrainers 9/2010 ~ loom 20110979.42E Reporting and Detection Limit Banguin warn's のなどが発行さ Chara Verna U 1419 Richisch Strees, Columbia, SC 2920) 11-78 Josephan Done, West Spin-griebs, MA, 11065 125 Leathers Regg, Manachestor, C.1, 60040 PROJECT, NUMBER 1.55 Learner Rosel, Tearchell C.F. 065.1. DISCORDANT HORSON ITTLE COMBERGAND AVE WELLESFIELD 1332 Analysis Rednest Photo Date Tan: Sampled CHAIN-OF-CUSTODY RECORD Date of 2514 2254 Smuzkel FUSS & O'NFILL ENVIROSCIENCE, LLC いっては Accepted B. Source 中国出土出 . 3-Air THE PERTURAL 1/3 B-Sediment Sampler's Signature: Charles Magnetic 11-VS-HISEGO Surp y Variet 1-1 Vestate v Facility 20110979 PE- Potable Visual HARRON 1861) (45.316) \* ww.NadOom. Discipling to Deliver 気が Leanster Charic MW Manitoring Well REPORT TO: NAME TO Share Codes: 3 P.O. VED X Other Nicober lien 3 50



Monday, March 03, 2014

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Project ID: DISCOVERY ACADEMY Sample ID#s: BG12665 - BG12676

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #MA-CT-007 ME Lab Registration #CT-007 NH Lab Registration #213693-A,B NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 03, 2014

FOR:

SV

LDA

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Samp	e	Infor	mat	ion
	_			

Matrix:

SOLID

Location Code: Rush Request: F&O-PCB 72 Hour

P.O.#:

20110979.A2E

Analyzed by: see "By" below

**Custody Information** 

Collected by:

Received by:

Date

Time

02/25/14 0:00 02/25/14 15:25

**Laboratory Data** 

SDG ID: GBG12665

Phoenix ID: BG12665

Project ID:

DISCOVERY ACADEMY

Client ID:

022514-SV-01

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/25/14	1	E160,3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0,33	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	82		%	02/26/14	AW	30 - 150 %
% TCMX	84		%	02/26/14	AW	30 - 150 %

Page 1 of 24 Ver 1

Client ID: 022514-SV-01

13. 0. 11. 11

Result

Units

Date/Time

Reference

Phoenix I.D.: BG12665

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

RL

PQL

### Comments:

Parameter

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Page 2 of 24 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 03, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

**Custody Information** 

Collected by:

Received by:

Analyzed by:

SV

LDA

see "By" below

Date 02/25/14 <u>Time</u> 0:00

02/25/14

15:25

P.O.#:

20110979.A2E

**Laboratory Data** 

SDG ID: GBG12665

Phoenix ID: BG12666

Project ID:

**DISCOVERY ACADEMY** 

Client ID:

022514-SV-02

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/25/14	1.1	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates					475	
% DCBP	81		%	02/26/14	AW	30 - 150 %
% TCMX	90		%	02/26/14	AW	30 - 150 %

Page 3 of 24

Client ID: 022514-SV-02

Parameter Result PQL Units

Date/Time

By Reference

Phoenix I.D.: BG12666

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

March 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 03, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sampl	e	Info	rma	tion

Matrix:

SOLID

F&O-PCB Location Code: Rush Request:

72 Hour

P.O.#:

20110979.A2E

**Custody Information** 

Collected by:

Received by:

Analyzed by:

SV

LDA see "By" below Date 02/25/14 **Time** 

0:00

02/25/14

15:25

aboratory Data

SDG ID: GBG12665

Phoenix ID: BG12667

Project ID:

DISCOVERY ACADEMY

Client ID:

022514-SV-03

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/25/14	1	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	80		%	02/26/14	AW	30 - 150 %
% TCMX	84		%	02/26/14	AVV	30 - 150 %
Section 10 to 10 t						

Client ID: 022514-SV-03

RL/
Parameter Result PQL Units Date/Time By Reference

Phoenix I.D.: BG12667

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

March 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Page 6 of 24 Ver 1



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# Analysis Report

March 03, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	Custody Information		<u>Time</u>
Matrix:	SOLID	Collected by:	SV	02/25/14	0:00
Location Code:	F&O-PCB	Received by:	LDA	02/25/14	15:25
Rush Request:	72 Hour	Analyzed by:	see "By" below		

Rush Request: P.O.#: 20110979.A2E

aboratory Data

SDG ID: GBG12665

Phoenix ID: BG12668

Project ID:

DISCOVERY ACADEMY

022514-SV-04 Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/25/14	1	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	85		%	02/28/14	AW	30 - 150 %
% TCMX	90		%	02/28/14	AW	30 - 150 %

Client ID: 022514-SV-04

RL

PQL Units Date/Time Reference Result By Parameter

Phoenix I.D.: BG12668

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Page 8 of 24 Ver 1



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# Analysis Report

March 03, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

see "By" below

Sample Informa	ation	Custody Inforn	Custody Information		Time
Matrix:	SOLID	Collected by:	sv	02/25/14	0:00
Location Code:	F&O-PCB	Received by:	LDA	02/25/14	15:25

**Laboratory Data** 

Analyzed by:

Rush Request: 72 Hour

P.O.#:

20110979.A2E

SDG ID: GBG12665

Phoenix ID: BG12669

DISCOVERY ACADEMY Project ID:

022514-SV-05 Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/25/14	- 1	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	80		%	02/26/14	AW	30 - 150 %
% TCMX	72		%	02/26/14	AW	30 - 150 %

Page 9 of 24

Client ID: 022514-SV-05

Phoenix I.D.: BG12669

RL/

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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March 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager



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# Analysis Report

March 03, 2014

FOR: Attn: K

SV

LDA

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Location Code: Rush Request: F&O-PCB

P.O.#:

72 Hour 20110979.A2E

Analyzed by: see "I

**Custody Information** 

Collected by:

Received by:

<u>Date</u> <u>Time</u> 02/25/14 0:00

02/25/14 15:25

see "By" below

**Laboratory Data** 

SDG ID: GBG12665

Phoenix ID: BG12670

Project ID:

DISCOVERY ACADEMY

Client ID:

022514-SV-06

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/25/14	10-	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	Control of the contro
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	0.56	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates			2.42	744.0454.7	91015	2010010000
% DCBP	109		%	02/26/14	AW	30 - 150 %
% TCMX	111		%	02/26/14	AW	30 - 150 %

Client ID: 022514-SV-06

Phoenix I.D.: BG12670

Parameter

Result P

RL/ PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

# Comments:

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March 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager



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# Analysis Report

March 03, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

see "By" below

Sample Informa	<u>ation</u>	Custody Inform	nation	Date	Time
Matrix:	SOLID	Collected by:	sv	02/25/14	0:00
Location Code:	F&O-PCB	Received by:	LDA	02/25/14	15:25

Analyzed by:

Rush Request: 72 Hour

P.O.#:

20110979.A2E

aboratory Data

SDG ID: GBG12665

Phoenix ID: BG12671

Project ID: **DISCOVERY ACADEMY** 

Client ID: 022514-SV-07

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/25/14		E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates			(C)4()4	2404013		5540070002
% DCBP	54		%	02/26/14	AW	30 - 150 %
% TCMX	61		%	02/26/14	AW	30 - 150 %

Client ID: 022514-SV-07

Phoenix I.D.: BG12671

RL/

Parameter

Result PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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Phyllis Shiller, Laboratory Director

March 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager



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# Analysis Report

March 03, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Info	<u>ormation</u>	Custody Inform	nation	
Matrix:	SOLID	Collected by:	SV	

SV LDA <u>Time</u> 0:00

Location Code:

F&O-PCB 72 Hour Received by: L Analyzed by: si

see "By" below

15:25

Rush Request: P.O.#:

20110979.A2E

**Laboratory Data** 

SDG ID: GBG12665

Phoenix ID: BG12672

Date

02/25/14

02/25/14

Project ID:

DISCOVERY ACADEMY

Client ID:

022514-SV-08

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/25/14	11.	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0,48	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.48	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates			( ) 5 / 1 / 1 / 1			1667,4762,276
% DCBP	71		%	02/26/14	AW	30 - 150 %
% TCMX	78		%	02/26/14	AW	30 - 150 %

Client ID: 022514-SV-08

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Phoenix I.D.: BG12672



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 03, 2014

FOR: Attn: Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation .	Custody Inform	<u>nation</u>	<u>Date</u>	<u>Time</u>
Matrix:	SOLID	Collected by:	sv	02/25/14	0:00
Location Code:	F&O-PCB	Received by:	LDA	02/25/14	15:25

72 Hour Rush Request:

Analyzed by: see "By" below

Laboratory Data

SDG ID: GBG12665 Phoenix ID: BG12673

DISCOVERY ACADEMY Project ID:

20110979.A2E

022514-SV-09 Client ID:

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/25/14	- 1	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0,34	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	89		%	02/26/14	AW	30 - 150 %
% TCMX	92		%	02/26/14	AW	30 - 150 %

Page 17 of 24

Client ID: 022514-SV-10

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Phoenix I.D.: BG12674



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# Analysis Report

March 03, 2014

FOR: Attn: Kathleen Pane

> Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information **Custody Information** Matrix: SOLID SV

Collected by:

Date Time 02/25/14 0:00 02/25/14 15:25

F&O-PCB Received by: LDA Analyzed by:

see "By" below

Rush Request: 72 Hour P.O.#:

20110979.A2E

aboratory Data

SDG ID: GBG12665

Phoenix ID: BG12675

Project ID:

Location Code:

DISCOVERY ACADEMY

022514-SV-11 Client ID:

RL Parameter Result PQL Units Date/Time By Reference 99 Percent Solid % 02/25/14 E160.3 Extraction for PCB Completed 02/25/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.33 mg/kg 02/26/14 3540C/8082 AW ND PCB-1221 0.33 mg/kg 02/26/14 3540C/8082 PCB-1232 ND 0.33 mg/kg 02/26/14 AW 3540C/8082 PCB-1242 ND 0.33 mg/kg 02/26/14 3540C/8082 AW ND PCB-1248 0.33 02/26/14 3540C/8082 mg/kg AW PCB-1254 ND 0.33 02/26/14 3540C/8082 mg/kg AW PCB-1260 ND 0.33 mg/kg 02/26/14 AW 3540C/8082 PCB-1262 ND 0.33 02/26/14 mg/kg 3540C/8082 AW PCB-1268 ND 0.33 02/26/14 mg/kg AW 3540C/8082 QA/QC Surrogates % DCBP 60 % 02/26/14 30 - 150 % AW % TCMX 64 % 02/26/14 30 - 150 %

Client ID: 022514-SV-11

RL

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Phoenix I.D.: BG12675



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 03, 2014

FOR: Attn: Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	Date	Time
Matrix:	SOLID	Collected by:	sv	02/25/14	0:00
Location Code:	F&O-PCB	Received by:	LDA	02/25/14	15:25
Rush Request:	72 Hour	Analyzed by:	see "By" below		

72 Hour Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBG12665 Phoenix ID: BG12676

Project ID: DISCOVERY ACADEMY

20110979.A2E

Client ID: 022514-SV-12

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/25/14	1-	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.69	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	86		%	02/26/14	AW	30 - 150 %
% TCMX	88		%	02/26/14	AW	30 - 150 %

Page 23 of 24 Ver 1

Client ID: 022514-SV-12

Phoenix I.D.: BG12676

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

if there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

March 03, 2014

# QA/QC Data

SDG I.D.: GBG12665

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 267459, QC Sa BG12672, BG12673, BG1267	mple No: BG12673 (BG12665, 4, BG12675, BG12676)	BG12666, BG	12667,	BG1266	88, BG	12669,	BG1267	0, BG126	571.
Polychlorinated Bipheny	/ls - Solid								
PCB-1016	ND	68	82	18.7	93	89	4.4	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	78	95	19.7	108	102	5.7	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	84	71	83	15.6	95	90	5.4	30 - 150	30
% TCMX (Surrogate Rec)	84	76	87	13.5	99	94	5.2	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

March 03, 2014

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# Sample Criteria Exceedences Report

GBG12665 - FO-PCB

Criteria

Phoenix Analyte

Acode

Monday, March 03, 2014

Criteria: None State: CT Result

Analysis Units Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance. RL Criteria Criteria R \*\*\* No Data to Display \*\*\* SampNo

# Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

(C)(Y)	ject Loca			Y ACADEMY		t Number:			
Lab	oratory S	ample II	D(s): BG12 BG12	2665, BG12666 2672, BG12673	5, BG12667, BG 3, BG12674, BG	612668, BG12669 612675, BG12676	9, BG12670 6	), BG126	371,
Sam	npling Da	te(s): 2	/25/2014						
RCF	Method	s Used:							
	311/1312	6010	□ 7000	0 🗌 7196	7470/7471	<b>8081</b>	☐ EPH		TO15
<b>₩</b> 80	082	8151	□ 8260	0 🗌 8270	□ ЕТРН	9010/9012	☐ VPH		
1.	any criter	l QA/QC po ria falling c	erformance of outside of acc	criteria followed.	nes, as specified in	uirement to explain	n ☑ Yes	□No	
1a.	Were the	method s	specified pres	servation and ho	olding time require	ments met?	☑ Yes	□ No	
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)							□ No	<b>☑</b> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?							□ No	
3.	Maria and		C. D. S. Zu V. Lie		erature (< 6 Degre		✓ Yes	□ No	□NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?						✓ Yes	□ No	
5a.	Were rep	orting limi	ts specified c	or referenced on	the chain-of-custo	ody?	✓ Yes	□ No	
5b.	to be a second		ng limits met?				✓ Yes	□ No	□NA
	results rep	ported for	all constituer	renced in this lab ints identified in the onfidence Protoco	boratory report pa the method-specifical documents?	ckage, were ic analyte lists	✓ Yes	□ No	□NA
7.	Are projec	ot-specific	matrix spike	s and laboratory	duplicates includ	ded in the data set?	? ✓ Yes	□No	□NA
l, the	the require	ed in an at rements for igned, at	ttached narrat r "Reasonable ttest under	e Confidence".	r to question #1, #	on of question #5a, # f1A or 1B is "No", th erjury that, to th	ne data packa	nge does n	not meet
and	belief an	d based	upon my p	personal inquir	ry of those resi	ponsible for pro rate and comple	oviding the	informa	ation
Auth	horized	,	ال عالم	0		Date: Mond	lay, March	03, 2014	P
	nature:		than	See	Print	ted Name: Ethan	1 Lee		
						Position: Project	ct Manager	r	



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# **RCP Certification Report**

March 03, 2014

SDG I.D.: GBG12665

### **PCB Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

Au-ecd24 02/26/14-1 (BG12672, BG12673, BG12674, BG12675, BG12676)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** 

Adam Werner

Position: Date:

Chemist 2/26/2014

Instrument:

Au-ecd3 02/26/14-1 (BG12665, BG12666, BG12667, BG12668, BG12669,

BG12670, BG12671)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds; none

The continuing calibration standards were within acceptance criteria except for the following compounds; none

Printed Name

Adam Werner

Position:

Chemist

Date:

2/26/2014

Instrument:

Au-ecd8 02/28/14-1 (BG12668)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name

Adam Werner

Position:

Chemist

Date:

2/28/2014



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# **RCP Certification Report**

March 03, 2014

SDG I.D.: GBG12665

### QC (Site Specific)

----- Sample No: BG12673, QA/QC Batch: 267459 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

### **Temperature Narration**

The samples in this delivery group were received at 1°C. (Note acceptance criteria is above freezing up to 6°C)

146 Hartford Road, Manchester, CT 06040

56 Quary Road, Trumbull, CT 06611

1419 Richland Street, Columbia, SC 29201

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50 Redfield Street, Suite 100, Boston, MA 02122 10 275 Promenade Street, Suite 350, Providence, RI 02908 10 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

2

200

(days) Other (day)
\*Surcharge Applies PHOGNIX LABORATORY Containers 20110979.AZE 176 WIMBALAND AVE, WETHERSFIELD CT SE 1331 Analysis CHAIN-OF-CUSTODY RECORD DISCOVERY ACADEMY

3

THROSE TO BE HER Request Date: 2-35-14 W=W2ste A=Air S=Soil B=Sediment TANE HARRON RAFIED PW=Potable Water CARTIMOS OF 20110979. Sampler's Signature: X=Other BRICK Source Codes:

MW=Monitoring Well
SW=Surface Water REPORT TO: INVOICE TO: P.O. No.:

Sample Number

Transfer Check

3 T

2

6:25 Additional Comments: (63) South Building - West Wall Wildbows 0 00 00 600 (S) 80 000 0 0 0 ଡ SONIT - 30 Mid OSEH - ABSERT 12672 12668 1267 placi Salate! 2000 からせの 126 Reporting and Detection Limit Requirements: VOA 1105 Time Date Time 3-36-14 Sampled Accepted By Source × -08 o 8 50--03 さっ 5 -03 033514-SV-DI 7 Number Transfer 2 No. 9

3 SAMPLEAT D.O"-O.S" DOTH

@South Vertical

O NORTH VORTICAL

7

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1419 Richland Street, Columbia, SC 29201
78 Interstate Drive, West Springfield, MA 01089 146 Harrford Road, Manchester, CT 06040 D 56 Quarry Road, Trumbull, CT 06611 FUSS & O'NEILL ENVIROSCIENCE, LLC (860) 646-2469 • www.FandO.com Disciplines to Deliver

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 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

(days)

days)

D 1 Day\* Sandard (\_

1332

CHAIN-OF-CUSTODY RECORD

343

7/020

1519 Additional Comments (3) SOUTH BUILDING - WESTWALL WINDOWS LABORATORY Comments O Other (day) 000 (E)(G) Containers 2000 PROJECT NUMBER 2011 10979, 43E Nool 0 Reporting and Detection Limit Requirements: DISCOVERY ACADEMY 1710 CUMBERLAND AVE WETHERSFIELD CT Saltrics Book do Request Analysis Time Date: 225-14 2-25-14 Date LARR HATHLIGEN HANE Accepted By W=Waste Source A=Att len S=Soil B=Sediment 1/3 11 - NS- HISEEO JOILDAM. ADE Sample Number T=Treatment Facility MW=Monitoring Well PW=Potable Water GRRRON Sampler's Signature: BRICK 2 3 4 Transfer Check SW=Surface Water INVOICE TO: REPORT TO: Source Codes: P.O. No.: X=Other Transfer Number Item No. <u>જ</u>

3 SAMPLE CO.D. - D.S.H

DSwin Vertical

ONDERNA VARTICAL

17 m

SILP AREA !!



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 04, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	Date	Time	
Matrix:	SOLID	Collected by:	sv	02/27/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/27/14	15:38
Rush Request:	72 Hour	Analyzed by:	see "By" below		1,74.5

72 Hour Analyzed by: see "By" below 20110979A2E

**Laboratory Data** 

SDG ID: GBG13708

Phoenix ID: BG13708

Project ID: DISCOVERY ACADEMY

Client ID: 022714-SV-01

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/27/14	T)	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates			771.72			
% DCBP	93		%	02/28/14	AW	30 - 150 %
% TCMX	99		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-01

Phoenix I.D.: BG13708

RL/

Parameter Result PQL

Units

Date/Time

By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 04, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 04, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

F&O-PCB

Location Code: Rush Request:

72 Hour

P.O.#:

Matrix:

20110979A2E

Custody Information

Collected by: Received by:

Analyzed by:

SV SW

see "By" below

<u>Date</u> 02/27/14 <u>Time</u> 0:00

02/27/14

4 15.3

701011

15:38

**Laboratory Data** 

SDG ID: GBG13708

Phoenix ID: BG13709

Project ID:

DISCOVERY ACADEMY

Client ID:

022714-SV-02

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/27/14	-10	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.51	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.51	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.51	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.51	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.51	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.51	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.51	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.51	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.51	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates			1.0.0.0.2		1.4.1	
% DCBP	87		%	02/28/14	AW	30 - 150 %
% TCMX	93		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-02

Phoenix I.D.: BG13709

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 04, 2014



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# Analysis Report

March 04, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

**Custody Information** 

Date Time

Matrix:

F&O-PCB

Collected by:

SV

02/27/14 0:00

Location Code:

Received by:

SW

02/27/14 15:38

Rush Request:

72 Hour

Analyzed by:

see "By" below

SDG ID: GBG13708

P.O.#:

20110979A2E

aboratory Data

Phoenix ID: BG13710

Project ID:

DISCOVERY ACADEMY

Client ID:

022714-SV-03

Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	96		%	02/27/14	1	E160.3
Extraction for PCB	Completed			03/03/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	03/04/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	108		%	03/04/14	AW	30 - 150 %
% TCMX	99		%	03/04/14	AW	30 - 150 %

Client ID: 022714-SV-03

Phoenix I.D.: BG13710

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 04, 2014



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# **Analysis Report**

March 04, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

F&O-PCB

Location Code: Rush Request:

72 Hour

P.O.#:

Matrix:

20110979A2E

**Custody Information** 

Collected by:

Received by:

Analyzed by:

SV

SW

Date 02/27/14 Time 0:00

02/27/14

15:38

see "By" below

aboratory Data

SDG ID: GBG13708

Phoenix ID: BG13711

Project ID:

DISCOVERY ACADEMY

Client ID:

022714-SV-04

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/27/14		E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates			1.77		, W C 2)	du la recoldinate
% DCBP	86		%	02/28/14	AW	30 - 150 %
% TCMX	90		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-04

Phoenix I.D.: BG13711

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 04, 2014

Page 8 of 36 Ver 1



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# **Analysis Report**

March 04, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

see "By" below

Sample Information		Custody Inform	nation	Date	Time
Matrix:	SOLID	Collected by:	sv	02/27/14	0:00
Location Code:	F&O-PCB	Received by:	SW	02/27/14	15.20

Analyzed by:

Rush Request: 72 Hour

20110979A2E

Laboratory Data

SDG ID: GBG13708

Phoenix ID: BG13712

Project ID: DIS

P.O.#:

DISCOVERY ACADEMY

Client ID: 022714-SV-05

Parameter	Result	RL/ PQL	Uhits	Date/Time	Ву	Reference
Percent Solid	98		%	02/27/14	1	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	89		%	02/28/14	AW	30 - 150 %
% TCMX	88		%	02/28/14	AW	30 - 150 %

Page 9 of 36 Ver 1

Client ID: 022714-SV-05

Phoenix I.D.: BG13712

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 04, 2014



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# **Analysis Report**

March 04, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	Custody Information		
Matrix:	SOLID	Collected by:	SV	02/27/14	0:00
Location Code:	F&O-PCB	Received by:	SW	02/27/14	15:38
Rush Request:	72 Hour	Analyzed by:	see "By" below		

P.O.#:

20110979A2E

aboratory Data

SDG ID: GBG13708

Phoenix ID: BG13713

Project ID:

DISCOVERY ACADEMY

Client ID: 022714-SV-06

RL/ Parameter Result PQL Units Date/Time By Reference Percent Solid 100 % 02/27/14 E160.3 Extraction for PCB Completed 02/27/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 0.49 ND mg/kg 02/28/14 AW 3540C/8082 PCB-1221 ND 0.49 mg/kg 02/28/14 AW 3540C/8082 PCB-1232 ND 0.49 02/28/14 3540C/8082 mg/kg AW PCB-1242 ND 0.49 mg/kg 02/28/14 AW 3540C/8082 PCB-1248 ND 0.49 mg/kg 02/28/14 3540C/8082 AW PCB-1254 ND 0.49 mg/kg 02/28/14 AW 3540C/8082 PCB-1260 ND 0.49 02/28/14 mg/kg AW 3540C/8082 PCB-1262 ND 0.49 02/28/14 3540C/8082 mg/kg AW PCB-1268 ND 0.49 3540C/8082 mg/kg 02/28/14 AW **QA/QC Surrogates** % DCBP 84 % 02/28/14 AW 30 - 150 % % TCMX 87 % 02/28/14 AW 30 - 150 %

> Page 11 of 36 Ver 1

Client ID: 022714-SV-06

Phoenix I.D.: BG13713

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 04, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

#### **Analysis Report**

March 04, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

Matrix:

20110979A2E

**Custody Information** 

Collected by:

Received by:

SV SW

Date 02/27/14 Time 0:00

02/27/14

15:38

Analyzed by: see "By" below

aboratory Data

SDG ID: GBG13708

Phoenix ID: BG13714

Project ID:

**DISCOVERY ACADEMY** 

Client ID:

022714-SV-08

		RL/					
Parameter	Result	PQL	Units	Date/Time	Ву	Reference	
Percent Solid	100	-11	%	02/27/14	-1-	E160.3	
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C	
PCB (Soxhlet)							
PCB-1016	ND	0.38	mg/kg	02/28/14	AW	3540C/8082	
PCB-1221	ND	0.38	mg/kg	02/28/14	AW	3540C/8082	
PCB-1232	ND	0.38	mg/kg	02/28/14	AW	3540C/8082	
PCB-1242	ND	0.38	mg/kg	02/28/14	AW	3540C/8082	
PCB-1248	ND	0.38	mg/kg	02/28/14	AW	3540C/8082	
PCB-1254	ND	0.38	mg/kg	02/28/14	AW	3540C/8082	
PCB-1260	ND	0.38	mg/kg	02/28/14	AW	3540C/8082	
PCB-1262	ND	0.38	mg/kg	02/28/14	AW	3540C/8082	
PCB-1268	ND	0.38	mg/kg	02/28/14	AW	3540C/8082	
QA/QC Surrogates							
% DCBP	66		%	02/28/14	AW	30 - 150 %	
% TCMX	69		%	02/28/14	AW	30 - 150 %	

Client ID: 022714-SV-08

Phoenix I.D.: BG13714

RL/

Parameter Result PQL Units Date/Time By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

#### **Analysis Report**

March 04, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	Date	<u>Time</u>
Matrix:	SOLID	Collected by:	sv	02/27/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/27/14	15:38
Rush Request:	72 Hour	Analyzed by:	see "By" below		

Analyzed by: see "By" below

#### **Laboratory Data**

SDG ID: GBG13708

Phoenix ID: BG13715

Project ID: **DISCOVERY ACADEMY** 

20110979A2E

022714-SV-09 Client ID:

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/27/14	- 6	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	72		%	02/28/14	AW	30 - 150 %
% TCMX	51		%	02/28/14	AW	30 - 150 %

Page 15 of 36

Client ID: 022714-SV-09

Phoenix I.D.: BG13715

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

#### **Analysis Report**

March 04, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	Custody Information		
Matrix:	SOLID	Collected by:	sv	02/27/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/27/14	15:38
Rush Request:	72 Hour	Analyzed by:	see "Ry" helow		

Laboratory Data

SDG ID: GBG13708

Phoenix ID: BG13716

Project ID: DISCOVERY ACADEMY

20110979A2E

Client ID: 022714-SV-10

P.O.#:

RL/ Parameter PQL Result Units Date/Time By Reference Percent Solid 97 % 02/27/14 E160.3 Extraction for PCB Completed 02/27/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.34 mg/kg 02/28/14 AW 3540C/8082 PCB-1221 ND 0,34 mg/kg 02/28/14 AW 3540C/8082 PCB-1232 ND 0.34 02/28/14 3540C/8082 mg/kg AW PCB-1242 ND 0.34 mg/kg 02/28/14 AW 3540C/8082 0.34 PCB-1248 ND mg/kg 02/28/14 AW 3540C/8082 PCB-1254 ND 0.34 02/28/14 3540C/8082 mg/kg AW PCB-1260 ND 0.34 mg/kg 02/28/14 AW 3540C/8082 PCB-1262 ND 0,34 02/28/14 3540C/8082 mg/kg AW PCB-1268 0.34 ND mg/kg 02/28/14 AW 3540C/8082 QA/QC Surrogates % DCBP 76 % 02/28/14 AW 30 - 150 % % TCMX 75 % 02/28/14 AW 30 - 150 %

Page 17 of 36 Ver 1

Client ID: 022714-SV-10

Phoenix I.D.: BG13716

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

March 04, 2014

Page 18 of 36 Ver 1



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

#### **Analysis Report**

March 04, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

see "By" below

Sample Information

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

Matrix:

20110979A2E

**Custody Information** 

Received by:

Analyzed by:

Collected by:

SV SW 02/27/14

Time 0:00

02/27/14

Date

15:38

Laboratory Data

SDG ID: GBG13708

Phoenix ID: BG13717

Project ID:

DISCOVERY ACADEMY

Client ID:

022714-SV-11

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/27/14		E160.3
Extraction for PCB	Completed		17	02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0,33	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	79		%	02/28/14	AW	30 - 150 %
% TCMX	81		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-11

Phoenix I.D.: BG13717

RL/

Parameter Result PQL Units Date/Time By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

#### **Analysis Report**

March 04, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		<b>Custody Inform</b>	Custody Information		
Matrix:	SOLID	Collected by:	sv	02/27/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/27/14	15:38

Rush Request: 72 Hour Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBG13708

Phoenix ID: BG13718

Project ID: DISCOVERY ACADEMY

20110979A2E

Client ID: 022714-SV-12

P.O.#:

RL/ Parameter PQL Result Units Date/Time By Reference Percent Solid 99 % 02/27/14 E160.3 Extraction for PCB Completed 02/27/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1221 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1232 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1242 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1248 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 PCB-1254 ND 0.33 02/28/14 AW 3540C/8082 mg/kg PCB-1260 02/28/14 ND 0.33 mg/kg AW 3540C/8082 PCB-1262 ND 0.33 02/28/14 3540C/8082 mg/kg AW PCB-1268 ND 0.33 mg/kg 02/28/14 AW 3540C/8082 QA/QC Surrogates % DCBP 102 % 02/28/14 AW 30 - 150 % % TCMX 76 % 02/28/14 AW 30 - 150 %

Page 21 of 36 Ver 1

Client ID: 022714-SV-12

Phoenix I.D.: BG13718

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

#### **Analysis Report**

March 04, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample	Information
--------	-------------

Matrix;

SOLID

F&O-PCB

Location Code: Rush Request:

72 Hour

P.O.#:

20110979A2E

# Analyzed by: see "By" below Laboratory Data

**Custody Information** 

SV

SW

Collected by:

Received by:

SDG ID: GBG13708

Time

0:00

15:38

Phoenix ID: BG13719

Date

02/27/14

02/27/14

Project ID:

DISCOVERY ACADEMY

Client ID:

022714-SV-13

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	97		%	02/27/14	1	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1254 .	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	100		%	02/28/14	AW	30 - 150 %
% TCMX	87		%	02/28/14	AW	30 - 150 %

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Client ID: 022714-SV-13

Phoenix I.D.: BG13719

RL/

Parameter Result PQL Units Date/Time By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

#### **Analysis Report**

March 04, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

see "By" below

Sample Informa	imple Information		nation	Date	Time
Matrix:	SOLID	Collected by:	sv	02/27/14	0:00
Location Code:	E&O.PCB	Received by:	CIM	02/27/14	45.20

Analyzed by:

Rush Request: 72 Hour

20110979A2E

Laboratory Data

SDG ID: GBG13708

Phoenix ID: BG13720

Project ID: DISCOVERY ACADEMY

P.O.#:

Client ID: 022714-SV-14

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/27/14	- 1	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0,49	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.49	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	83		%	02/28/14	AW	30 - 150 %
% TCMX	68		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-14

Phoenix I.D.: BG13720

RL/ PQL

Parameter Result

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

#### **Analysis Report**

March 04, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample	Info	rmation

Matrix:

SOLID

Location Code:

F&O-PCB

Rush Request: P.O.#:

72 Hour 20110979A2E

Laboratory Data

Received by:

Analyzed by:

Custody Information
Collected by: SV

sv sw

see "By" below

02/27/14 0:00 02/27/14 15:38

Time

Date

SDG ID: GBG13708

Phoenix ID: BG13721

Project ID:

DISCOVERY ACADEMY

Client ID:

022714-SV-15

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/27/14		
Extraction for PCB	Completed		117	02/27/14	PP/X	E160,3 SW3540C
PCB (Soxhlet)					1.100	-11.00
PCB-1016	ND	0.33	mg/kg	02/28/14	AVA	25400/0000
PCB-1221	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg		AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.33	\$ 15 (T) Z (10 Z)	02/28/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND		mg/kg	02/28/14	AW	3540C/8082
PCB-1268		0.33	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates	ND	0.33	mg/kg	02/28/14	AW	3540C/8082
% DCBP	87		42			
% TCMX			%	02/28/14	AW	30 - 150 %
a I CIVIX	81		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-15

Phoenix I.D.: BG13721

Parameter

RL/ Result PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823

# Analysis Report

March 04, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information Matrix:

SOLID Location Code:

F&O-PCB Rush Request:

72 Hour P.O.#:

Custody Information Collected by: SV

Received by: Analyzed by:

SW

Date 02/27/14 02/27/14

Time 0:00 15:38

20110979A2E

see "By" below Laboratory Data

SDG ID: GBG13708

Phoenix ID: BG13722

DISCOVERY ACADEMY

Project ID: Client ID: 022714-SV-16

Percent Solid Extraction for PCB	Result PQL	Units	Date/Time By Bot-	
PCB (Soxhlet) PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260 PCB-1262 PCB-1268 PA/QC Surrogates DCBP TCMX	ND 0.33	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	02/27/14 I E160.3 02/27/14 PP/X SW35400 02/28/14 AW 3540C/808 02/28/14 AW 3540C/808 02/28/14 AW 3540C/808 02/28/14 AW 3540C/8082	82 82 82 82 82 82 82 82 82 82 82 82 82 8

Page 29 of 36 Ver 1

Client ID: 022714-SV-16

Phoenix I.D.: BG13722

RL/ Parameter Result PQL

Units Date/Time

By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 04, 2014

FOR:

Attn; Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

P.O.#:

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

20110979A2E

**Custody Information** 

SV

SW

Collected by:

Received by:

Analyzed by:

Date

Time 02/27/14 0:00

02/27/14 15:38

see "By" below .aboratory Data

SDG ID: GBG13708

Phoenix ID: BG13723

Project ID: DISCOVERY ACADEMY

Client ID: 022714-SV-17

Parameter	Result	RL/ PQL	Units			
Percent Solid Extraction for PCB	99 Completed		%	Date/Time 02/27/14	Ву	Reference
PCB (Soxhlet)	- Impleted			02/27/14	PP/X	E160.3 SW3540C
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260 PCB-1262 PCB-1262 PCB-1268 PCB-1268 PCB-1268 PCB-1268 PCB-1268 PCB-1268	ND ND ND ND ND ND ND ND ND	0.34 0.34 0.34 0.34 0.34 0.34 0.34 0.34	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	02/28/14 02/28/14 02/28/14 02/28/14 02/28/14 02/28/14 02/28/14 02/28/14 02/28/14	AW AW AW	3540C/8082 3540C/8082 3540C/8082 3540C/8082 3540C/8082 3540C/8082 3540C/8082 3540C/8082 3540C/8082

Client ID: 022714-SV-17

Phoenix I.D.: BG13723

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

#### Analysis Report

March 04, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	<b>Custody Inform</b>	nation	Date	Time
Matrix:	SOLID	Collected by:	SV	02/27/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/27/14	15:38
Rush Request:	72 Hour	Analyzed by:	see "By" below		1930

72 Hour Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBG13708

Phoenix ID: BG13724

Project ID: DISCOVERY ACADEMY

20110979A2E

Client ID: 022714-SV-18

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/27/14	17	E160.3
Extraction for PCB	Completed			02/27/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1248	ND	0,5	mg/kg	02/28/14	AW	3540C/8082
PCB-1254	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/28/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	91		%	02/28/14	AW	30 - 150 %
% TCMX	86		%	02/28/14	AW	30 - 150 %

Client ID: 022714-SV-18

Phoenix I.D.: BG13724

RL/

Parameter Result PQL

Units

Date/Time

By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

March 04, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Inform	ation	0.0000000000000000000000000000000000000		- 10	
Matrix: Location Code: Rush Request; P.O.#:	SOLID F&O-PCB 72 Hour	Custody Inform Collected by: Received by: Analyzed by:	nation SV SW see "By" below	<u>Date</u> 02/27/14 02/27/14	<u>Time</u> 0:00 15:38
(2.4)	20110979A2E		- J Delow		

Laboratory Data

SDG ID: GBG13708

Phoenix ID: BG13725

Project ID: DISCOVERY ACADEMY

Client ID: 022714-SV-DUP

Parameter	Result	RL/ PQL	Units	Military -		
Percent Solid Extraction for PCB  PCB (Soxhlet)	99 Completed		%	Date/Time 02/27/14 02/27/14	By I PP/X	Reference E160.3 SW3540C
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260 PCB-1268 PCB-1268 PA/QC Surrogates PCBP	ND ND ND ND ND ND ND ND ND ND ND ND ND N	0.33 0.33 0.33 0.33 0.33 0.33 0.33 0.33	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	02/28/14 02/28/14 02/28/14 02/28/14 02/28/14 02/28/14 02/28/14 02/28/14 02/28/14	AW	3540C/8082 3540C/8082 3540C/8082 3540C/8082 3540C/8082 3540C/8082 3540C/8082 3540C/8082 3540C/8082

Client ID: 022714-SV-DUP

Phoenix I.D.: BG13725

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

# FUSS & O'NEILL ENVIROSCIENCE, LLC UM, 646-386 - 20-22m Oxida Disriplines to Delaper

11/6 Handood Road, Manchester, C. 7, 16740

S.G.Queery, Rose, Transholf, C.T. (2661).
 1479 Richland Seeal, Calumina, NC 20201.
 15 In accordance, West Springfield, M.S. 2: 169.

30 Redfeld Street Sains 10ft, Roeman, VA 22122
 22 Street Sains Sain, Sain 120, Presidence, PL 0298
 40 Weskington Street, Sains 231, Proaghiscapus, NY 1262

(E) CONNECONE WES VERTICAL (AREA) PHOENIX \*Surcassy Applies LANCHATORY @ (1) 000 ontainers 15:38 AND COMMON COMMON OF SOUTH BURG NORTH WALL (m) Mayoring and Developed Linds Requirements < | ppm U. D. J. Sardari 20110979,42E (2) GAST VERTICAL LARCA S) (3) CANNECTA GAST VERTICAL (MORT) The Combergand Ave, Wornsprence of 201109 CARROS CAR BOOK 13709 13716 1371 0 m 3 1371 7 1371 1337 1371 3 W 1333 Request Analysis lient 2127 K Dalk T.In. Date 22 27-14 CHAIN-OF-CUSTODY RECORD Productive . Date 方派の W=Wacu August By Sucre 8 B MATHLEEN PAINT B 10 P 3 S 3 8 8 Samper's Signature Child New Lew S-Syl B-X-firens 100- HILLER Not Submitted Sample Namber SCN 10979 ASE Pr-Pank Estate
T-Income Facility DISCURRY ALABORIN S. Lagranday D. PROJECT NAME BRICK Tense for Charle WW-Mentoring Wel INVOSCIETO Source Codes: P.O. NO. 8 X-Orber Vestiles. Increbe 0 E X 9 Č0 4 0



# FUSS & O'NEILL ENVIROSCIENCE, LLC

 FO Reddickl Succe, Swite 100, Pesson, MA 02722.
 Zes Brounnude Succe, Suite 530, Provideror, RI 102405.
 Su Waddingson Succe. Suite 501. Proppheropee, NY 12007. PHOGNIX \*Sunchage Applies LABOTATORY 9 9 9 9 9 Containers 88888 60 1000 MM U 1 Day' (2 Ducked) ( day) 301/06/97/08 148 Harristot Road, Manteeren, 137 (404). 2 de Gerry Bood, Tranbolt, 131. (201). 2 476 Rechland Freez, Colorriba, SC 2937. U 75 Extersion: Disc. West Systoched, Est (2019). PROJECT NUMBER CONTROL SOR RELIGIO 13732 13724 13719 13720 1372 DISCOVERY ACADEMY TILE CLAREGERAND AVE, WATHERSFIELD CT 373 13 7 1334 Request Analysis Sapal CHAIN-OF-CUSTODY RECORD Town Parc 23-14 PROJECT LOCATION Sample The c ASTAL A Code が上げ 10 무막무 15 F.89 Nagarda Naller REDFIELD S=Sal f=Selvent KATINGEN PANE Sample Number UBBOHH-SI T-Trestran Pading PW = Apoli Com (200) CHC 2-69 + Warm 13ta K.) (240) ZOKKE Disciplishes to Deliner PROIDCE NAME BRICK . . Sampler's Signature: Source Codes: NW-Rentoring Well NW Surface Weer Tauxin Check 242 INVOICE TO REPORT TO: PO NO:

X Orber

No.

3 S Ę

		+ WRLL	WECTOR WESS VERTICAL	DWEST VERTICAL (New 13)
	Report to and Detection Land despinancials   C   OCM	" Additional Common Colo Scutt Build North	White @ Do"-OS DEATH (Flowing the Wies Vertical)	(3) CONSCIENT ENETY ERTICAL (Mary) DUNESTVERTICAL (Mark)
	Dare Tirre	2127114 15:38	×	
The second second	Azerpind By	TROMEM		
	Kalinchier By	Joursbydemic		
	Tertsto	Æ	8 59	-1-

373

32-



Tuesday, February 25, 2014

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND

Sample ID#s: BG11049 - BG11060

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 25, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

COLIF

Custody Information

Date

Time

Matrix: Location Code: SOLID F&O-PCB Collected by:

02/20/14

0:00

Rush Request:

72 Hour

Received by: Analyzed by:

see "By" below

SW

02/20/14 15:14

P.O.#:

20110979A2E

Laboratory Data

SDG ID: GBG11049

Phoenix ID: BG11049

Project ID:

DISCOVERY ACADEMY-176 CUMBERLAND

Client ID:

022014-SV-01

RL Parameter Result PQL Units Date/Time By Reference Percent Solid % 02/20/14 E160.3 Extraction for PCB Completed 02/20/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.33 02/21/14 mg/kg AW 3540C/8082 PCB-1221 ND 0.33 mg/kg 02/21/14 AW 3540C/8082 PCB-1232 0.33 ND mg/kg 02/21/14 3540C/8082 PCB-1242 ND 0.33 02/21/14 3540C/8082 mg/kg AW PCB-1248 ND 0.33 02/21/14 3540C/8082 mg/kg AW PCB-1254 ND 0.33 mg/kg 02/21/14 AW 3540C/8082 PCB-1260 ND 0.33 mg/kg 02/21/14 3540C/8082 AW PCB-1262 ND 0.33 mg/kg 02/21/14 AW 3540C/8082 PCB-1268 ND 0.33 mg/kg 02/21/14 AW 3540C/8082 QA/QC Surrogates % DCBP 84 % 02/21/14 30 - 150 % % TCMX 86 02/21/14 30 - 150 % %

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND

Client ID: 022014-SV-01

RL

Parameter PQL Units Result Date/Time Reference By

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 25, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Phoenix I.D.: BG11049



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 25, 2014

FOR: Attn:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

Custody Information

Date

<u>Time</u>

Matrix: Location Code:

F&O-PCB

sw

02/20/14 02/20/14 0:00 15:14

Rush Request:

72 Hour

Analyzed by:

Collected by:

Received by:

see "By" below

SDG ID: GBG11049

P.O.#:

20110979A2E

Laboratory Data

Phoenix ID: BG11050

Project ID: DIS

DISCOVERY ACADEMY-176 CUMBERLAND

Client ID:

022014-SV-02

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/20/14		E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	81		%	02/21/14	AW	30 - 150 %
% TCMX	84		%	02/21/14	AW	30 - 150 %

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND

Client ID: 022014-SV-02

RL/
Parameter Result PQL Units Date/Time By Reference

Phoenix I.D.: BG11050

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 25, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Page 4 of 24

Ver 1



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

#### Analysis Report

February 25, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	Date	Time
Matrix:	SOLID	Collected by:		02/20/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/20/14	15:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		(10/3)

Rush Request: P.O.#:

72 Hour

see "By" below

20110979A2E aboratory Data

SDG ID: GBG11049

Phoenix ID: BG11051

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND

Client ID: 022014-SV-03

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/20/14		E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates			77777			77 17 21 7 3 3 4
% DCBP	114		%	02/21/14	AW	30 - 150 %
% TCMX	85		%	02/21/14	AW	30 - 150 %
					1.9 10/3	200 144 14

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND

Client ID: 022014-SV-03

RL

Parameter PQL Result Units Date/Time By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 25, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Phoenix I.D.: BG11051



Environmental Laboratories, Inc. 587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 25, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	Date	Time
Matrix:	SOLID	Collected by:		02/20/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/20/14	15:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		100

P.O.#:

20110979A2E

aboratory Data

SDG ID: GBG11049

Phoenix ID: BG11052

Project ID:

DISCOVERY ACADEMY-176 CUMBERLAND

Client ID: 022014-SV-04

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/20/14	T	E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	85		%	02/21/14	AW	30 - 150 %
% TCMX	72		%	02/21/14	AW	30 - 150 %
						Land III Albert Line

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND

Client ID: 022014-SV-04

RL

Parameter Result PQL Units Date/Time By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 25, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Phoenix I.D.: BG11052



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 25, 2014

FOR: Attn: Ms

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

 Sample Information
 Custody Information
 Date
 Time

 Matrix:
 SOLID
 Collected by:
 02/20/14
 0:00

 Location Code:
 F&O-PCB
 Received by:
 SW
 02/20/14
 15:14

Rush Request: 72 Hour Analyzed by: see "By" below

Laboratory Data

SDG ID: GBG11049

Phoenix ID: BG11053

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND

20110979A2E

Client ID: 022014-SV-05

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/20/14	1	E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0,5	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	81		%	02/21/14	AW	30 - 150 %
% TCMX	82		%	02/21/14	AW	30 - 150 %

Client ID: 022014-SV-05

Phoenix I.D.: BG11053

RL/

Parameter

Result PQL

Units

Date/Time

Ву Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 25, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

February 25, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

F&O-PCB

Location Code: Rush Request:

Matrix:

P.O.#:

72 Hour

20110979A2E

**Custody Information** 

Collected by:

Analyzed by:

Received by:

see "By" below

SW

02/20/14

Date

**Time** 0:00

02/20/14 15:14

aboratory Data

SDG ID: GBG11049

Phoenix ID: BG11054

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND

Client ID: 022014-SV-06

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/20/14	1	E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates				96-21(1)	27.4	33400/8082
% DCBP	82		%	02/21/14	AW	30 - 150 %
% TCMX	85		%	02/21/14	AW	30 - 150 %

Client ID: 022014-SV-06

RL

Result PQL

Units

Date/Time

By Reference

Phoenix I.D.: BG11054

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

Parameter

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 25, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

February 25, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	<u>ation</u>	Custody Information	Date	Time
Matrix:	SOLID	Collected by:	02/20/14	0:00
Location Code:	F&O-PCB	Received by: SW	02/20/14	15:14

Analyzed by:

Rush Request: 72

72 Hour

see "By" below

P.O.#:

20110979A2E

## Laboratory Data

SDG ID: GBG11049

Phoenix ID: BG11055

Project ID:

DISCOVERY ACADEMY-176 CUMBERLAND

Client ID: 022014-SV-07

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/20/14	1	E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	126		%	02/21/14	AW	30 - 150 %
% TCMX	130		%	02/21/14	AW	30 - 150 %

Client ID: 022014-SV-07

200

Phoenix I.D.: BG11055

RL

Parameter Result PQL Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 25, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

February 25, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Collected by:

<u>Date</u> 02/20/14

02/20/14

Time

Location Code:

F&O-PCB

Received by:

**Custody Information** 

SW

0:00 15:14

Rush Request:

72 Hour

Analyzed by:

see "By" below

SDG ID: GBG11049

P.O.#:

20110979A2E

Laboratory Data

Phoenix ID: BG11056

Project ID:

DISCOVERY ACADEMY-176 CUMBERLAND

Client ID:

022014-SV-08

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/20/14	-1	E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.49	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.49	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.49	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.49	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.49	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.49	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.49	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.49	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.49	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates			0.000			
% DCBP	81		%	02/21/14	AW	30 - 150 %
% TCMX	84		%	02/21/14	AW	30 - 150 %

Client ID: 022014-SV-08

Phoenix I.D.: BG11056

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 25, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 25, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

F&O-PCB

Location Code: Rush Request:

P.O.#:

Matrix:

72 Hour

20110979A2E

aboratory Data

Custody Information

SW

see "By" below

Collected by:

Received by:

Analyzed by:

SDG ID: GBG11049

Time

0:00

15:14

Phoenix ID: BG11057

Date

02/20/14

02/20/14

Project ID:

DISCOVERY ACADEMY-176 CUMBERLAND

Client ID:

022014-SV-09

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/20/14		E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.47	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.47	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.47	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.47	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.47	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.47	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.47	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.47	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.47	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	77		%	02/21/14	AW	30 - 150 %
% TCMX	81		%	02/21/14	AW	30 - 150 %

Client ID: 022014-SV-09

RL

Parameter Result

PQL

Units

Date/Time

By Reference

Phoenix I.D.: BG11057

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 25, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

February 25, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

SOLID

Time

Matrix: Location Code:

F&O-PCB

02/20/14

0:00

Received by:

Collected by:

SW

02/20/14

Date

15:14

Rush Request:

72 Hour

Analyzed by:

see "By" below

P.O.#:

20110979A2E

Laboratory Data

**Custody Information** 

SDG ID: GBG11049 Phoenix ID: BG11058

Project ID:

DISCOVERY ACADEMY-176 CUMBERLAND

Client ID:

022014-SV-10

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/20/14	- 1	E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	77		%	02/21/14	AW	30 - 150 %
% TCMX	81		%	02/21/14	AW	30 - 150 %

Client ID: 022014-SV-10

Phoenix I.D.: BG11058

RL

Parameter R

Result PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 25, 2014



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**Analysis Report** 

February 25, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

<u>Time</u>

Matrix:

ELO DOD

734

02/20/14 0:00

Location Code:

F&O-PCB

Received by: SW

02/20/14 15:14

Date

Rush Request:

72 Hour

Analyzed by:

see "By" below

P.O.#:

20110979A2E

**Laboratory Data** 

**Custody Information** 

Collected by:

SDG ID: GBG11049

Phoenix ID: BG11059

Project ID:

DISCOVERY ACADEMY-176 CUMBERLAND

Client ID:

022014-SV-11

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/20/14	- 1	E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	76		%	02/21/14	AW	30 - 150 %
% TCMX	78		%	02/21/14	AW	30 - 150 %

Client ID: 022014-SV-11

Phoenix I.D.: BG11059

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 25, 2014



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## Analysis Report

February 25, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample InformationCustody InformationDateMatrix:SOLIDCollected by:02/20/14

Location Code: F&O-PCB Received by: SW 02/20/14

Rush Request: 72 Hour Analyzed by: see "By" below P.O.#: 20110979A2E

Laboratory Data

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND

Client ID: 022014-SV-12

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	97		%	02/20/14	1	E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	65		%	02/21/14	AW	30 - 150 %
% TCMX	69		%	02/21/14	AW	30 - 150 %

**Time** 

0:00

15:14

SDG ID: GBG11049

Phoenix ID: BG11060

Client ID: 022014-SV-12

Phoenix I.D.: BG11060

RL/ PQL

Parameter Result

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 25, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## QA/QC Report

February 25, 2014

#### QA/QC Data

SDG I.D.: GBG11049

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 267166, QC Sa BG11056, BG11057, BG1105		049, BG11050, BG	11051, 1	BG1105	52, BG	11053, E	3G1105	4, BG110	)55,
Polychlorinated Bipheny	yls - Solid								
PCB-1016	ND	94	103	9.1				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	105	115	9.1				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	104	103	113	9.3				30 - 150	30
% TCMX (Surrogate Rec)	103	103	108	4.7				30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

February 25, 2014

Tuesday, February 25, 2014

Criteria: None State: CT

Sample Criteria Exceedences Report

GBG11049 - FO-PCB

Page 1 of 1

Analysis Units

RL Criteria Criteria R Result Criteria Phoenix Analyte \*\*\* No Data to Display \*\*\* Acode SampNo

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

### Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Fuss & O'Neill, Inc.

Laboratory Name: Phoenix Environmental Labs, Inc. Client:

Proj	ect Loca	tion: DIS	COVERY A	CADEMY-17	6 CU Project	Number:				
Lab	oratory S	Sample ID(s	BG1104 BG1105	9, BG11050 6, BG11057	, BG11051, BG1 , BG11058, BG1	1052, BG11053, 1059, BG11060	BG11054	, BG110	55,	
Sam	pling Da	ite(s): 2/20	)/2014							
RCP	Method	s Used:								
□ 1	311/1312	<b>6010</b>	7000	7196	7470/7471	□ 8081	☐ EPH	☐ TO15		
<b>₹</b> 8	082	□ 8151	□ 8260	8270	☐ ETPH	9010/9012	☐ VPH			
1.	specified any crite	I QA/QC perfe ria falling out:	ormance crite side of accep	eria followed, i table guidelin	poratory report pa including the requ es, as specified in ol documents?	irement to explain	☑ Yes	□No		
1a.	Were the	method spe	cified preserv	ation and hol	ding time requirer	nents met?	☑ Yes	□No		
1b.					PH method cond pective RCP meti		☐ Yes	□ No	₩ NA	
2.				aboratory in a -of-Custody d	condition consist locument(s)?	ent with that	✓ Yes	□No		
3.	Were sa	mples receive	ed at an appr	opriate tempe	erature (< 6 Degre	es C)?	□Yes	☑ No	□NA	
4.	Were all Protocol	QA/QC perfo documents a	rmance crite chieved?	ria specified i	n the Reasonable	Confidence	☑ Yes	□ No		
5a.	Were rep	porting limits	specified or re	eferenced on	the chain-of-custo	ody?	✓ Yes	□ No		
5b.	Were the	ese reporting	limits met?	41	A 1 - 1 - 1 - 1		☑ Yes	□ No	□NA	
6.	results re	eported for all	constituents	identified in t	poratory report pa he method-specifi ol documents?	ckage, were c analyte lists	✓ Yes	□ No	□NA	
7.	Are proje	ct-specific m	atrix spikes a	nd laboratory	duplicates includ	ed in the data set?	☐ Yes	☑ No	□NA	
Note:	be provid	uestions to whed in an attac rements for "l	hed narrative	. If the answe	(with the exception r to question #1, #	n of question #5a, # IA or 1B is "No", the	7), additiona e data packa	il informa ige does r	tion must not meet	
and	belief a	nd based u	pon my per	sonal inqui	ry of those res	erjury that, to th consible for pro rate and comple	viding the			
Δ.,,	horized	شار	4150.0			Date: Tueso	lay, Februa	ary 25, 2	014	
	norized nature:	Ex	than	See	Print	ed Name: Ethan	Lee			
		117		17,117		Position: Project	t Manage			





#### Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **RCP Certification Report**

February 25, 2014

SDG I.D.: GBG11049

The samples were received by the laboratory at a temperature of 17 degrees C with cooling initiated. No significant bias is suspected.

#### PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

Au-ecd1 02/21/14-1 (BG11052)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** 

Adam Werner

Position: Date: Chemist 2/21/2014

Instrument:

Au-ecd6 02/21/14-1 (BG11049)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** 

Adam Werner

Position:

Chemist

Date:

2/21/2014

Instrument:

Au-ecd7 02/21/14-1 (BG11049, BG11050, BG11051)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** 

Adam Werner

Position: Date: Chemist 2/21/2014

Instrument:

Au-ecd8 02/21/14-1 (BG11053, BG11054, BG11055, BG11056, BG11057,

BG11058, BG11059, BG11060)





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## **RCP Certification Report**

February 25, 2014

SDG I.D.: GBG11049

#### 8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner Position: Chemist 2/21/2014

#### QC (Batch Specific)

----- Sample No: BG10841, QA/QC Batch: 267166 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

#### Temperature Narration

The samples in this delivery group were received at 17°C. (Note acceptance criteria is above freezing up to 6°C)

# FUSS & O'NEILL ENVIROSCIENCE, LLC (860) 646-2469 • www.FandO.com Disciplines to Deliver

3 50 Redfield Street, Suite 100, Boston, MA 02122	2 275 Promenade Street, Suite 350, Providence, RI	50 Washington Street, Suite 301, Poughkeepsie, N.
-	-	Ĕ,

02908 Y 12601 Comments (days) PHUENIX TO OS | | NO OS | | NO OS | NO \*Surcharge Applies LABORATORY Containers **@**(3) D Other days) O 1 Days A 3 Days\* O 2 Days O Standard ( 20110979, AZE Z 146 Hattford Road, Manchester, CT 06040

56 Quarry Road, Trumbull, CT 06611

1419 Richland Sureet, Columbia, SC 29201

78 Interstate Drive, West Springfield, MA 01089 PROJECT NUMBER WHIPOS CS OR BOOK 650 11 060 176 COMBERLAND ANG WOTHERS FIELD CT 1330 Request Analysis Time Date: 2 -14 CHAIN-OF-CUSTODY RECORD 2-20-4 PROJECT LOCATION 4108-6 Date W=Waste Source A=Air HARRON REDFIELD S=Soll B=Sediment 61-PANE 1-12- Place Sample Number 20110919.43E T=Treatment Facility PW=Potable Water DISCOVERY ACADEMY HATHLEEN Sampler's Signature BRICK Transfer Check Source Codes:
MW=Monitoring Well
SW=Surface Water m 7 REPORT TO: INVOICE TO: P.O. No.: X=Other -

No.

3

Time Reporting and Detection Limit Requirements: < I ppm	2/20/14 15:14 Additional Comments (6) SOUTH BUYING - SOUTH WALL -SIDP AREA 10	)	(2) GET VERTICAL	
Time	15:1			0
Date	2120114	1		
Accepted By	Monde			
Relinquished By	Maybanlen	>		
Transfer	-	2.	'n	+

 So Redfield Street, Suite 100, Boston, MA 02122
 275 Promenade Street, Suite 350, Providence, RI 02908
 80 Washington Street, Suite 301, Poughkeepsie, NY 12601 (days) O Other (da \*Surcharge Applies PHOGNIX LABORATORY Containers days) U1Day\* UStandard( 20110979. AZE 146 Hartford Road, Manchester, CT 06040
 56 Quarry Road, Trumbull, CT 06611
 1419 Richland Street, Columbia, SC 29201
 78 Interstate Drive, West Springfield, MA 01089 PROJECT NUMBER DISCOVERY ACADEMY ITLE WAS EARLY WENTERSFIELD CT 1329 Analysis CHAIN-OF-CUSTODY RECORD PROJECT LOCATION FUSS & O'NEILL ENVIROSCIENCE, LLC (860) 646-2469 • www.FandO.com Disciplines to Deliver PROJECT NAME

in oos I I no ose I 1 000 1 1 005 1 7 POSEMI I SAVI erower! BIFFE COR Request Date: 20-20-1 W=Waste A=Air S=Soil B=Sediment KARRON REDFIELD PANE SOUDGIA, N. 36 PW=Potable Water T=Treatment Facility REPORT TO: HATHLEEN Sampler's Signature: X=Other BRICK MW=Monitoring Well SW=Surface Water INVOICE TO: Source Codes: P.O. No.:

							10/	1111	100/00/00	2/2/2	10/0
No. 1	Transfer Check	Sample Number	,	Source	Date Sampled	Tune	E P		20 105 8860 / 20 105 8860 / 20 105 8860 / 20 105 8860 / 20 105 8860 / 20 105 / 20 10	14 - 318 16 d 24 - 318 16 d 24 - 318 16 d 29 00 V 88 16 0 20 V 88 16	A STATE Comments
_		10-18-410881	10	×	2-2014	,	_	11 049	-		9
3/		Y	-03	3			<u></u>	11 050	,=		Θ
3		•	-03				1	11 051	-		Θ
7			10-				/	11052	1		0
8			-05				_	11053			0
101			-00-				_	h sall	-		Θ
1			60-				7	11 055			0
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Transfer	28	Relinquished By	(Ac	Accepted By		Date	Time	Reporting and Detect	Reporting and Detection Limit Requirements: < 100M	W	
-	Townson	anlonder	ST	Ma	Ź	2120	11 15 11	Additional Comments	15:14 Additional Comments (61) South Bulding - SOUTH WITH - SIDP AREA 10	SOUTH WALL	SIDP AREA 10
Í		- maria	-	-				(	)		

Owest vernear



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **Analysis Report**

February 28, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample InformationCustody InformationDateMatrix:SOLIDCollected by:SV02/25/14

 Matrix:
 SOLID
 Collected by:
 SV
 02/25/14
 0:00

 Location Code:
 F&O-PCB
 Received by:
 LDA
 02/25/14
 15:25

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979.A2E Laboratory Data

SDG ID: GBG12665

Time

Phoenix ID: BG12665

Project ID: DISCOVERY ACADEMY

Client ID: 022514-SV-01

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/25/14	THO	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	82		%	02/26/14	AW	30 - 150 %
% TCMX	84		%	02/26/14	AW	30 - 150 %

Project ID: DISCOVERY ACADEMY

Client ID: 022514-SV-01

Phoenix I.D.: BG12665

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 28, 2014

Page 2 of 24 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

February 28, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

**Custody Information** Date Time Sample Information Collected by: SV 02/25/14 0:00 Matrix: SOLID 02/25/14 15:25 Location Code: F&O-PCB Received by: LDA

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979.A2E Laboratory Data

SDG ID: GBG12665

Phoenix ID: BG12666

Project ID: DISCOVERY ACADEMY

Client ID: 022514-SV-02

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/25/14	- A.	E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	81		%	02/26/14	AW	30 - 150 %
% TCMX	90		%	02/26/14	AW	30 - 150 %

Project ID: DISCOVERY ACADEMY

Client ID: 022514-SV-02

Phoenix I.D.: BG12666

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 28, 2014



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## **Analysis Report**

February 28, 2014

FOR:

Attn: Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	<u>Date</u>	Time
Matrix:	SOLID	Collected by:	sv	02/25/14	0:00
Location Code:	F&O-PCB	Received by:	LDA	02/25/14	15:25

Rush Request: 72 Hour Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBG12665

Phoenix ID: BG12667

Project ID: DISCOVERY ACADEMY

20110979.A2E

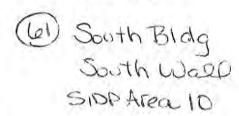
Client ID: 022514-SV-03

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/25/14		E160.3
Extraction for PCB	Completed			02/25/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0,33	mg/kg	02/26/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/26/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	80		%	02/26/14	AW	30 - 150 %
% TCMX	84		%	02/26/14	AW	30 - 150 %

Page 5 of 24 Ver 1





587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **Analysis Report**

February 24, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

**Custody Information** 

Date

Time

Matrix: Location Code:

F&O-PCB

Collected by: Received by: SW

02/20/14 02/20/14 0:00

Rush Request:

72 Hour

Analyzed by:

see "By" below

15:14

P.O.#:

20110979A2E

aboratory Data

SDG ID: GBG11049

Phoenix ID: BG11049

Project ID:

DISCOVERY ACADEMY-176 CUMBERLAND

Client ID:

022014-SV-01

Darameter	Beink	RL/	A Garker	Districts	- 6	A
Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/20/14	1	E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	84		%	02/21/14	AW	30 - 150 %
% TCMX	86		%	02/21/14	AW	30 - 150 %

Client ID: 022014-SV-01

RL/

Parameter Result PQL Units Date/Time By Reference

Phoenix I.D.: BG11049

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

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Phyllis Shiller, Laboratory Director

February 24, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **Analysis Report**

February 24, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

SOLID

**Custody Information** 

<u>Date</u> <u>Time</u>

Matrix:

SOLID

Collected by:

02/20/14

0:00

Location Code:

F&O-PCB

Received by:

SW

02/20/14 15:14

Rush Request: P.O.#:

72 Hour

Analyzed by:

see "By" below

SDG ID: GBG11049

20110979A2E

Laboratory Data

Phoenix ID: BG11050

Project ID:

DISCOVERY ACADEMY-176 CUMBERLAND

Client ID:

022014-SV-02

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/20/14	-1-	E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	81		%	02/21/14	AW	30 - 150 %
% TCMX	84		%	02/21/14	AW	30 - 150 %

Client ID: 022014-SV-02

RL/

Parameter Result PQL Units Date/Time By Reference

Phoenix I.D.: BG11050

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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Phyllis Shiller, Laboratory Director

February 24, 2014

Page 4 of 24 Ver 1



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**Analysis Report** 

February 24, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

00110

**Custody Information** 

Date

02/20/14

<u>Time</u>

Matrix:

SOLID

Collected by:

02/20/14

0:00

Location Code:

F&O-PCB

Received by:

sw

15:14

Rush Request:

72 Hour

Analyzed by:

see "By" below

P.O.#:

20110979A2E

Laboratory Data

SDG ID: GBG11049

Phoenix ID: BG11051

Project ID:

DISCOVERY ACADEMY-176 CUMBERLAND

Client ID:

022014-SV-03

RL/ Parameter Result PQL Units Date/Time By Reference Percent Solid 99 % 02/20/14 E160.3 Extraction for PCB Completed 02/20/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.48 02/21/14 AW 3540C/8082 mg/kg PCB-1221 ND 0.48 mg/kg 02/21/14 AW 3540C/8082 PCB-1232 ND 0.48 3540C/8082 mg/kg 02/21/14 AW PCB-1242 ND 0.48 02/21/14 AW 3540C/8082 mg/kg 3540C/8082 PCB-1248 ND 0.48 mg/kg 02/21/14 AW PCB-1254 ND 0.48 02/21/14 AW 3540C/8082 mg/kg PCB-1260 ND 0.48 mg/kg 02/21/14 AW 3540C/8082 PCB-1262 ND 0.48 02/21/14 3540C/8082 mg/kg AW PCB-1268 ND 0.48 02/21/14 3540C/8082 mg/kg AW QA/QC Surrogates % DCBP 114 % 02/21/14 AW 30 - 150 % % TCMX 85 % 02/21/14 AW 30 - 150 %

Page 5 of 24 Ver 1

Client ID: 022014-SV-03

Phoenix I.D.: BG11051

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 24, 2014

Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **Analysis Report**

February 24, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

 Sample Information
 Custody Information
 Date
 Time

 Matrix:
 SOLID
 Collected by:
 02/20/14
 0:00

 Location Code:
 F&O-PCB
 Received by:
 SW
 02/20/14
 15:14

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979A2E

Laboratory Data

SDG ID: GBG11049

Phoenix ID: BG11052

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND

Client ID: 022014-SV-04

RL/ Parameter Result PQL Units Date/Time Reference By Percent Solid 99 % 02/20/14 E160.3 Extraction for PCB Completed 02/20/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.48 mg/kg 02/21/14 AW 3540C/8082 PCB-1221 ND 0.48 02/21/14 AW 3540C/8082 mg/kg PCB-1232 ND 0.48 02/21/14 AW 3540C/8082 mg/kg PCB-1242 0.48 3540C/8082 ND mg/kg 02/21/14 AW PCB-1248 ND 0.48 mg/kg 02/21/14 AW 3540C/8082 PCB-1254 ND 0.48 mg/kg 02/21/14 AW 3540C/8082 PCB-1260 ND 0.48 02/21/14 3540C/8082 AW mg/kg PCB-1262 ND 0.48 02/21/14 3540C/8082 mg/kg AW PCB-1268 ND 0.48 02/21/14 3540C/8082 mg/kg AW **QA/QC Surrogates** % DCBP 85 % 02/21/14 AW 30 - 150 % 72 30 - 150 % % TCMX % 02/21/14 AW

Page 7 of 24 Ver 1

Client ID: 022014-SV-04

Phoenix I.D.: BG11052

RL/

Parameter Result PQL Units Date/Time By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 24, 2014



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## **Analysis Report**

February 24, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

**Custody Information** 

Date

Time

Matrix:

Collected by:

02/20/14 0:00 02/20/14

Location Code:

F&O-PCB

Received by: Analyzed by:

SW see "By" below 15:14

Rush Request: P.O.#:

72 Hour 20110979A2E

aboratory Data

SDG ID: GBG11049

Phoenix ID: BG11053

Project ID:

DISCOVERY ACADEMY-176 CUMBERLAND

Client ID:

022014-SV-05

Result	PQL	Units	Date/Time	Ву	Reference
100		%	02/20/14	- 1-	E160.3
Completed			02/20/14	PP/X	SW3540C
ND	0.5	mg/kg	02/21/14	AW	3540C/8082
ND	0.5	mg/kg	02/21/14	AW	3540C/8082
ND	0.5	mg/kg	02/21/14	AW	3540C/8082
ND	0.5	mg/kg	02/21/14	AW	3540C/8082
ND	0.5	mg/kg	02/21/14	AW	3540C/8082
ND	0.5	mg/kg	02/21/14	AW	3540C/8082
ND	0.5	mg/kg	02/21/14	AW	3540C/8082
ND	0.5	mg/kg	02/21/14	AW	3540C/8082
ND	0.5	mg/kg	02/21/14	AW	3540C/8082
81		%	02/21/14	AW	30 - 150 %
82		%	02/21/14	AW	30 - 150 %
	100 Completed  ND	Result PQL  100 Completed  ND 0.5	Result         PQL         Units           100         %           Completed         %           ND         0.5         mg/kg           ND         0.5         mg/kg	100 % 02/20/14 Completed 02/20/14  ND 0.5 mg/kg 02/21/14	Result         PQL         Units         Date/Time         By           100         %         02/20/14         J           Completed         02/20/14         PP/X           ND         0.5         mg/kg         02/21/14         AW           ND         0.5         mg/kg         02/21/14         AW

Client ID: 022014-SV-05

Parameter

RL/

Result PQL Units Date/Time By Reference

Phoenix I.D.: BG11053

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 24, 2014

Page 10 of 24 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

February 24, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

 Sample Information
 Custody Information
 Date
 Time

 Matrix:
 SOLID
 Collected by:
 02/20/14
 0:00

 Location Code:
 F&O-PCB
 Received by:
 SW
 02/20/14
 15:14

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979A2E Laboratory Date

Laboratory Data SDG ID: GBG11049

Phoenix ID: BG11054

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND

Client ID: 022014-SV-06

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/20/14	- 1	E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.48	mg/kg	02/21/14	WA	3540C/8082
PCB-1248	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.48	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	82		%	02/21/14	AW	30 - 150 %
% TCMX	85		%	02/21/14	AW	30 - 150 %

Page 11 of 24 Ver 1

Client ID: 022014-SV-06

Phoenix I.D.: BG11054

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 24, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

February 24, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

**Custody Information** Collected by:

Date

Time

Matrix:

F&O-PCB

02/20/14 02/20/14 0:00

Location Code:

Received by:

SW

15:14

Rush Request:

72 Hour

Analyzed by:

see "By" below

SDG ID: GBG11049

P.O.#:

20110979A2E

aboratory Data

Phoenix ID: BG11055

Project ID:

DISCOVERY ACADEMY-176 CUMBERLAND

Client ID:

022014-SV-07

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/20/14	1	E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.96	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	126		%	02/21/14	AW	30 - 150 %
% TCMX	130		%	02/21/14	AW	30 - 150 %

Page 13 of 24

Ver 1

Client ID: 022014-SV-07

Phoenix I.D.: BG11055

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 24, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 24, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

 Sample Information
 Custody Information
 Date

 Matrix:
 SOLID
 Collected by:
 02/20/14

Location Code: F&O-PCB Received by: SW

Rush Request: 72 Hour Analyzed by: see "By" below P.O.#: 20110979A2E

<u>Laboratory Dat</u>

Laboratory Data SDG ID: GBG11049
Phoenix ID: BG11056

Time

0:00

15:14

02/20/14

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND

Client ID: 022014-SV-08

RL/ PQL Parameter Units Result Date/Time By Reference Percent Solid 99 % 02/20/14 E160.3 Extraction for PCB Completed PP/X SW3540C 02/20/14 PCB (Soxhlet) PCB-1016 ND 0.49 02/21/14 3540C/8082 mg/kg AW PCB-1221 ND 0.49 mg/kg 02/21/14 AW 3540C/8082 PCB-1232 ND 0.49 02/21/14 3540C/8082 mg/kg AW PCB-1242 ND 0.49 02/21/14 3540C/8082 mg/kg AW PCB-1248 0.49 02/21/14 3540C/8082 ND mg/kg AW PCB-1254 ND 0.49 mg/kg 02/21/14 AW 3540C/8082 PCB-1260 ND 0.49 mg/kg 02/21/14 AW 3540C/8082 PCB-1262 ND 0.49 02/21/14 3540C/8082 AW mg/kg PCB-1268 0.49 3540C/8082 ND mg/kg 02/21/14 AW **QA/QC Surrogates** % % DCBP 81 02/21/14 30 - 150 % AW % TCMX 84 % 02/21/14 30 - 150 % AW

Page 15 of 24 Ver 1

Client ID: 022014-SV-08

Phoenix I.D.: BG11056

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 24, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

February 24, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information **Custody Information** Date **Time** Matrix: SOLID Collected by: 02/20/14 0:00 Location Code: F&O-PCB Received by: SW 02/20/14 15:14

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979A2E

SDG ID: GBG11049 aboratory Data Phoenix ID: BG11057

DISCOVERY ACADEMY-176 CUMBERLAND Project ID:

Client ID: 022014-SV-09

Percent Solid         98         %         02/20/14         I         E160           Extraction for PCB         Completed         02/20/14         PP/X         SW3	
Extraction for PCB Completed 02/20/14 PP/X SW3	
	3540C
PCB (Soxhlet)	
PCB-1016 ND 0.47 mg/kg 02/21/14 AW 3540	OC/8082
PCB-1221 ND 0.47 mg/kg 02/21/14 AW 3540	OC/8082
PCB-1232 ND 0.47 mg/kg 02/21/14 AW 3540	OC/8082
PCB-1242 ND 0.47 mg/kg 02/21/14 AW 3540	OC/8082
PCB-1248 ND 0.47 mg/kg 02/21/14 AW 3540	OC/8082
PCB-1254 ND 0.47 mg/kg 02/21/14 AW 3540	OC/8082
PCB-1260 ND 0.47 mg/kg 02/21/14 AW 3540	OC/8082
PCB-1262 ND 0.47 mg/kg 02/21/14 AW 3540	OC/8082
PCB-1268 ND 0.47 mg/kg 02/21/14 AW 3540	OC/8082
QA/QC Surrogates	
% DCBP 77 % 02/21/14 AW 30 -	150 %
% TCMX 81 % 02/21/14 AW 30 -	150 %

Page 17 of 24

Client ID: 022014-SV-09

RL/

Parameter Result PQL Units Date/Time By Reference

Phoenix I.D.: BG11057

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 24, 2014

Page 18 of 24 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 24, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inforn	nation	Date	Time
Matrix:	SOLID	Collected by:		02/20/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/20/14	15:14

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979A2E Laboratory Data

SDG ID: GBG11049 Phoenix ID: BG11058

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND

Client ID: 022014-SV-10

RL/ Parameter PQL Units Result Date/Time By Reference Percent Solid 98 % E160.3 02/20/14 Extraction for PCB Completed PP/X SW3540C 02/20/14 PCB (Soxhlet) PCB-1016 ND 0.5 mg/kg 02/21/14 AW 3540C/8082 PCB-1221 ND 0.5 mg/kg 02/21/14 AW 3540C/8082 PCB-1232 ND 0.5 mg/kg 02/21/14 AW 3540C/8082 PCB-1242 ND 0.5 mg/kg 02/21/14 AW 3540C/8082 PCB-1248 ND 0.5 mg/kg 02/21/14 AW 3540C/8082 PCB-1254 ND 0.5 02/21/14 3540C/8082 mg/kg AW PCB-1260 ND 0.5 02/21/14 3540C/8082 mg/kg AW PCB-1262 ND 0.5 mg/kg 02/21/14 AW 3540C/8082 PCB-1268 ND 0.5 mg/kg 02/21/14 AW 3540C/8082 **QA/QC Surrogates** % DCBP 77 % 02/21/14 AW 30 - 150 % % TCMX 81 % 02/21/14 AW 30 - 150 %

Page 19 of 24 Ver 1

Client ID: 022014-SV-10

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 24, 2014

Phoenix I.D.: BG11058



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 24, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	<b>Custody Information</b>	Date	<u>Time</u>
Matrix:	SOLID	Collected by:	02/20/14	0:00
Location Code:	F&O-PCB	Received by: SW	02/20/14	15:14

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979A2E Laboratory Data

SDG ID: GBG11049

Phoenix ID: BG11059

Project ID: DISCOVERY ACADEMY-176 CUMBERLAND
Client ID: 022014-SV-11

RL/ Parameter Result PQL Units Date/Time By Reference Percent Solid 98 % 02/20/14 E160.3 Extraction for PCB Completed 02/20/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.33 mg/kg 02/21/14 AW 3540C/8082 PCB-1221 ND 0.33 mg/kg 02/21/14 AW 3540C/8082 PCB-1232 ND 0.33 mg/kg 02/21/14 AW 3540C/8082 PCB-1242 ND 0.33 02/21/14 3540C/8082 mg/kg AW PCB-1248 ND 0.33 mg/kg 02/21/14 AW 3540C/8082 PCB-1254 ND 0.33 mg/kg 02/21/14 AW 3540C/8082 PCB-1260 ND 0.33 mg/kg 02/21/14 AW 3540C/8082 PCB-1262 ND 0.33 mg/kg 02/21/14 AW 3540C/8082 PCB-1268 ND 0.33 mg/kg 02/21/14 AW 3540C/8082 **QA/QC Surrogates** 76 % DCBP % 02/21/14 AW 30 - 150 % 78 % TCMX % 02/21/14 AW 30 - 150 %

Page 21 of 24 Ver 1

Client ID: 022014-SV-11

Phoenix I.D.: BG11059

RL/

Parameter Result PQL Units Date/Time By Reference

## RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 24, 2014



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# **Analysis Report**

February 24, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sam	ple	Int	orma	ation

Matrix:

SOLID

Custody Information Collected by:

<u>Date</u> 02/20/14 <u>Time</u> 0:00

Location Code:

F&O-PCB

Received by:

SW

02/20/14 15:14

Rush Request:

72 Hour

Analyzed by:

see "By" below

P.O.#:

20110979A2E

Laboratory Data

SDG ID: GBG11049

Phoenix ID: BG11060

Project ID:

**DISCOVERY ACADEMY-176 CUMBERLAND** 

Client ID:

022014-SV-12

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	97		%	02/20/14	I.	E160.3
Extraction for PCB	Completed			02/20/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1254	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
PCB-1262	ND	0,5	mg/kg	02/21/14	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/21/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	65		%	02/21/14	AW	30 - 150 %
% TCMX	69		%	02/21/14	AW	30 - 150 %

Page 23 of 24

Ver 1

Client ID: 022014-SV-12

Phoenix I.D.: BG11060

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 24, 2014

# FUSS & O'NEILL ENVIROSCIENCE, 11.C

Disciplina to Definer (Int. 25 250" - ventual John

14; Hur Spel Road, Meedest er, CT 30000 3 Schnary Back, Toroball, CJ 18501 3 \* 119 Red land seem, Columbia, SC 2022; 0 78 Endstate Diver, West Spaingfull, MA 01089

15. 14 Additional Commonwood (d) Down i Bougard - South Whele - SIMP AREA 10 Ceramons PHOENLY odset \_\_\_\_\_ pa Lemoratory Containers **ම**ල් 1988 1888 1988 1888 0.2 Days 25 Days O. 2 Days Reported and Detection Last 1 Requirements <  $|\varphi_{BIR}|$ 20110979, AZE Mis Charger And Ave Worters Herb CT 2011C 11 060 1330 Request Analysis Er 2/20/14 Date Dax 63 20-14 CHAIN-OF-CUSTODY RECORD Tyme Ne uplec \* 2304 X X 4-30-Darpled W-Water secrepted By Sore Core REAFIED S=Sut J=Second 0 コーパーナロロロコ PAND Sarr ple Noreller DOILDANG ABE L=Change Pally DISCOVERY ACADEMY 日本三下の ればい 切ぶん HATHERA ARRON keincushed Be BRICK Sampler's Signature Numbe Codes:
-NVE-Monioring Well
NK-Suring Vete Transcer Check REPORT TO: INVOICE TO P.O. No. X Other Zancke Nereka Int 3

@ GENTARY VERNICAS

17

# FUSS & O'NEILL ENVIROSCIENCE, LLC

145 Sociend Road, March open, OT Sollar

D 59 Rollfeld Street, Sairs 106, Boaron, AN 20122

12 275 Fronceau Street, Seite 150, Providence, RI 1997a (1987)

19 375 Fronceau Street, Saire 201, Poughkeque, NY 12661 3

majematasse majetiti 15 14 ALT GOOD CONTROL (61) SCOTH BACKING - SOUTH WALL - SIDP ARCH ID ( r mmenny Procedix 2 Other (A LADORATORY Continuers CONTRACT CONTRACT @@@@  $\Theta(\Theta)$ depa J.Day J.Sandadi Report to and Described Little Acquirements: < 100M 20110979. AZE 50 Quary Road Trenthall (T. 1951)
 149 Rinkland Street, Columbia, SC 29201
 28 Interactor Dave, West Springered, MA 10030 PROJECT NUMBER 020 11 055 4 1056 2001 11 05 1 150 1 85 DISCOVERY ACTIONNY ITIPCHARGEMENTS AVE WENTERSHEED CT 1329 Reignest Analysis Tine? 2/26/19 Date Der 20-76-14 Semped CHAIN-OF-CUSTODY RECORD 8-20-H PROJECT LOCATION Sampled Dar との言のに W West decepted By Code 200 109 -08 01-105 100 5 Soil B"Nellment 10--03 20-10-75- Fioes KARRON REDFIELD PRINE Sangle Number ें शाधिवाच भ स .- Presuren: Fielly PW=Fotable Water Mily 646, 460 . was freuk been HATHITEN Calinerished De Disciplines to Deliver PROPRIET NAWA Sampler's Signature: BRICK Towns Check W. - Mooi oring W. I SW-Surface Water INVOICE THE REPORT TO: Surme Codex P.O. NO. X=Car Znosle Newber Titl 3

4

Q

QUEST VERTICAL

61



Monday, February 10, 2014

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Project ID: DISCOVERY ACADEMY Sample ID#s: BG05726 - BG05740

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #MA-CT-007 ME Lab Registration #CT-007 NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

February 10, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

Custody Information

Collected by: Received by:

9

sw

02/04/14

Date

Time 0:00

02/0

13:44

Analyzed by:

see "By" below

aboratory Data

SDG ID: GBG05726

Phoenix ID: BG05726

Project ID:

DISCOVERY ACADEMY

Client ID:

020414KN-01

RL Parameter Result PQL Units Date/Time Ву Reference Percent Solid 96 % 02/04/14 KDB E160.3 Extraction for PCB Completed 02/04/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.51 mg/kg 02/06/14 AW 3540C/8082 PCB-1221 ND 0.51 mg/kg 02/06/14 AW 3540C/8082 PCB-1232 ND 0.51 mg/kg 02/06/14 3540C/8082 AW PCB-1242 ND 0.51 mg/kg 02/06/14 AW 3540C/8082 PCB-1248 ND 0.51 mg/kg 02/06/14 3540C/8082 AW PCB-1254 ND 0.51 02/06/14 mg/kg AW 3540C/8082 PCB-1260 ND 0.51 mg/kg 02/06/14 AW 3540C/8082 PCB-1262 ND 0.51 02/06/14 mg/kg AW 3540C/8082 PCB-1268 ND 0.51 mg/kg 02/06/14 AW 3540C/8082 **QA/QC Surrogates** % DCBP 81 % 02/06/14 AW 30 - 150 % % TCMX 82 % 02/06/14 30 - 150 %

Client ID: 020414KN-01

Phoenix I.D.: BG05726

RL/

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 10, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 10, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	Date	Time
Matrix:	SOLID	Collected by:		02/04/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/04/14	13:44
Rush Request:	72 Hour	Analyzed by:	see "By" below		

P.O.#: 20110979A2E

**Laboratory Data** 

SDG ID: GBG05726

Phoenix ID: BG05727

Project ID: DISCOVERY ACADEMY

Client ID: 020414KN-02

RL Parameter Result PQL Units Date/Time By Reference Percent Solid 98 % 02/04/14 KDB E160.3 Extraction for PCB Completed 02/04/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 0.5 ND mg/kg 02/06/14 3540C/8082 AW PCB-1221 ND 0.5 mg/kg 02/06/14 AW 3540C/8082 PCB-1232 ND 0.5 mg/kg 02/06/14 AW 3540C/8082 PCB-1242 ND 0.5 mg/kg 02/06/14 3540C/8082 AW PCB-1248 ND 0.5 mg/kg 02/06/14 AW 3540C/8082 PCB-1254 ND 0.5 mg/kg 02/06/14 AW 3540C/8082 PCB-1260 ND 0.5 mg/kg 02/06/14 3540C/8082 AW PCB-1262 0.5 ND mg/kg 02/06/14 AW 3540C/8082 PCB-1268 ND 0.5 mg/kg 02/06/14 3540C/8082 **QA/QC Surrogates** % DCBP 77 % 02/06/14 AW 30 - 150 % % TCMX 74 % 02/06/14 30 - 150 %

Client ID: 020414KN-02

Phoenix I.D.: BG05727

RL/

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

## Comments:

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Phyllis Shiller, Laboratory Director

February 10, 2014



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 10, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix: SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

**Custody Information** 

Collected by: Received by:

Analyzed by:

SW

see "By" below

**Time** 

0:00

13:44

Date

02/04/14

02/04/14

aboratory Data

SDG ID: GBG05726

Phoenix ID: BG05728

Project ID:

DISCOVERY ACADEMY

Client ID:

020414KN-03

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	94		%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.52	mg/kg	02/06/14	AW	3540C/8082
PCB-1221	ND	0.52	mg/kg	02/06/14	AW	3540C/8082
PCB-1232	ND	0.52	mg/kg	02/06/14	AW	3540C/8082
PCB-1242	ND	0.52	mg/kg	02/06/14	AW	3540C/8082
PCB-1248	ND	0.52	mg/kg	02/06/14	AW	3540C/8082
PCB-1254	ND	0.52	mg/kg	02/06/14	AW	3540C/8082
PCB-1260	ND	0.52	mg/kg	02/06/14	AW	3540C/8082
PCB-1262	ND	0.52	mg/kg	02/06/14	AW	3540C/8082
PCB-1268	ND	0.52	mg/kg	02/06/14	AW	3540C/8082
QA/QC Surrogates					177	
% DCBP	72		%	02/06/14	AW	30 - 150 %
% TCMX	77		%	02/06/14	AW	30 - 150 %

Client ID: 020414KN-03

Phoenix I.D.: BG05728

RL

Parameter Result PQL Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 10, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

February 10, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information Custody Information Date Time Matrix: SOLID Collected by: 02/04/14 0:00 Location Code: F&O-PCB Received by: SW 02/04/14 13:44 Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#:

20110979A2E

aboratory Data

SDG ID: GBG05726

Phoenix ID: BG05729

Project ID: DISCOVERY ACADEMY

Client ID: 020414KN-04

RL Parameter Result PQL Units Date/Time By Reference Percent Solid 95 % 02/04/14 KDB E160.3 Extraction for PCB Completed PP/X SW3540C 02/04/14 PCB (Soxhlet) 0.5 PCB-1016 ND mg/kg 02/06/14 AW 3540C/8082 PCB-1221 ND 0.5 mg/kg 02/06/14 AW 3540C/8082 PCB-1232 ND 0.5 02/06/14 mg/kg AW 3540C/8082 PCB-1242 ND 0.5 02/06/14 mg/kg AW 3540C/8082 PCB-1248 ND 0.5 mg/kg 02/06/14 AW 3540C/8082 PCB-1254 ND 0.5 mg/kg 02/06/14 3540C/8082 AW PCB-1260 ND 0.5 02/06/14 mg/kg AW 3540C/8082 PCB-1262 ND 0.5 mg/kg 02/06/14 3540C/8082 AW PCB-1268 ND 0.5 mg/kg 02/06/14 AW 3540C/8082 QA/QC Surrogates % DCBP 76 % 02/06/14 AW 30 - 150 % % TCMX 77 % 02/06/14 AW 30 - 150 %

Client ID: 020414KN-04

Phoenix I.D.: BG05729

RL

Parameter Result PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

## Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 10, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 10, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation .	Custody Inform	<u>nation</u>	<u>Date</u>	<u>Time</u>
Matrix:	SOLID	Collected by:		02/04/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/04/14	13:44
Rush Request:	72 Hour	Analyzed by:	see "By" below		

72 Hour Analyzed by: 20110979A2E

Laboratory Data

SDG ID: GBG05726

Phoenix ID: BG05730

Project ID: DISCOVERY ACADEMY

Client ID: 020414KN-05

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	97		%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1221	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1232	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1242	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1248	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1254	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1260	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1262	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1268	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	84		%	02/06/14	AW	30 - 150 %
% TCMX	78		%	02/06/14	AW	30 - 150 %

Client ID: 020414KN-05

Phoenix I.D.: BG05730

RL/ PQL

Parameter Result

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 10, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 10, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

Matrix:

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

Custody Information

Collected by: Received by: Analyzed by:

sw

SW

see "By" below

**Laboratory Data** 

SDG ID: GBG05726

**Time** 

0:00

13:44

Phoenix ID: BG05731

Date

02/04/14

02/04/14

Project ID:

DISCOVERY ACADEMY

Client ID:

020414KN-06

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	95		%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1221	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1232	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1242	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1248	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1254	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1260	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1262	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1268	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	76		%	02/06/14	AW	30 - 150 %
% TCMX	70		%	02/06/14	AW	30 - 150 %

Client ID: 020414KN-06

Phoenix I.D.: BG05731

RL

Parameter Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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Phyllis Shiller, Laboratory Director

February 10, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 10, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	Date	Time	
Matrix:	SOLID	Collected by:		02/04/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/04/14	13:44
Rush Request:	72 Hour	Analyzed by:	see "By" below		

72 Hour Analyzed by: see "By" below 20110979A2E

**Laboratory Data** 

SDG ID: GBG05726

Phoenix ID: BG05732

Project ID: DISCOVERY ACADEMY

Client ID: 020414KN-07

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	95		%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.74	mg/kg	02/06/14	AW	3540C/8082
PCB-1221	ND	0.74	mg/kg	02/06/14	AW	3540C/8082
PCB-1232	ND	0.74	mg/kg	02/06/14	AW	3540C/8082
PCB-1242	ND	0.74	mg/kg	02/06/14	AW	3540C/8082
PCB-1248	ND	0.74	mg/kg	02/06/14	AW	3540C/8082
PCB-1254	ND	0.74	mg/kg	02/06/14	AW	3540C/8082
PCB-1260	ND	0.74	mg/kg	02/06/14	AW	3540C/8082
PCB-1262	ND	0.74	mg/kg	02/06/14	AW	3540C/8082
PCB-1268	ND	0.74	mg/kg	02/06/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	77		%	02/06/14	AW	30 - 150 %
% TCMX	80		%	02/06/14	AW	30 - 150 %

Client ID: 020414KN-07

Phoenix I.D.: BG05732

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 10, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 10, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information **Custody Information** Date <u>Time</u> Matrix: SOLID Collected by: 02/04/14 0:00 Location Code: F&O-PCB Received by: SW 02/04/14 13:44 Rush Request: 72 Hour see "By" below

Analyzed by: 20110979A2E

aboratory Data

SDG ID: GBG05726

Phoenix ID: BG05733

DISCOVERY ACADEMY Project ID:

Client ID: 020414KN-08

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	94		%	02/04/14	KDB	E160,3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1221	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1232	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1242	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1248	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1254	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1260	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1262	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1268	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	83		%	02/05/14	AW	30 - 150 %
% TCMX	77		%	02/05/14	AW	30 - 150 %

Client ID: 020414KN-08

Phoenix I.D.: BG05733

RL/

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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Phyllis Shiller, Laboratory Director

February 10, 2014



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 10, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

SW

see "By" below

Sample I	format	ion
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Matrix:

SOLID

Location Code:

F&O-PCB

Rush Request: P.O.#:

72 Hour

20110979A2E

aboratory Data

**Custody Information** 

Collected by:

Received by:

Analyzed by:

Date 02/04/14

02/05/14

02/05/14

02/05/14

02/05/14

02/05/14

**Time** 0:00

02/04/14 13:44

SDG ID: GBG05726

Project ID:

DISCOVERY ACADEMY

ND

ND

ND

ND

ND

0.68

0.68

0.68

0.68

0.68

Client ID:

PCB-1248

PCB-1254

PCB-1260

PCB-1262

PCB-1268

020414KN-09

Phoenix ID: BG05734

AW

AW

AW

3540C/8082

3540C/8082

3540C/8082

3540C/8082

3540C/8082

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.68	mg/kg	02/05/14	AW	3540C/8082
PCB-1221	ND	0.68	mg/kg	02/05/14	AW	3540C/8082
PCB-1232	ND	0.68	mg/kg	02/05/14	AW	3540C/8082
PCB-1242	ND	0.68	mg/kg	02/05/14	AW	3540C/8082

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

QA/QC Surrogates % DCBP 80 % 02/05/14 AW 30 - 150 % % TCMX 76 % 02/05/14 AW 30 - 150 %

Client ID: 020414KN-09

Phoenix I.D.; BG05734

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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Phyllis Shiller, Laboratory Director

February 10, 2014



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 10, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

 Sample Information
 Custody Information
 Date
 Time

 Matrix:
 SOLID
 Collected by:
 02/04/14
 0:00

 Location Code:
 F&O-PCB
 Received by:
 SW
 02/04/14
 13:44

Rush Request: 72 Hour Analyzed by: see "By" below

Laboratory Data SDG ID: GBG05726
Phoenix ID: BG05735

Project ID: DISCOVERY ACADEMY

20110979A2E

Client ID: 020414KN-10

P.O.#:

RL Parameter Result PQL Units Date/Time Reference By Percent Solid 95 % 02/04/14 KDB E160.3 Completed Extraction for PCB 02/04/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.58 02/05/14 3540C/8082 mg/kg AW PCB-1221 ND 0.58 mg/kg 02/05/14 AW 3540C/8082 ND 0.58 PCB-1232 02/05/14 3540C/8082 mg/kg AW PCB-1242 ND 0.58 02/05/14 3540C/8082 mg/kg AW PCB-1248 ND 0.58 mg/kg 02/05/14 AW 3540C/8082 PCB-1254 ND 0.58 02/05/14 3540C/8082 mg/kg AW PCB-1260 ND 0.58 02/05/14 3540C/8082 mg/kg AW ND 0.58 PCB-1262 02/05/14 3540C/8082 mg/kg AW PCB-1268 ND 0.58 mg/kg 02/05/14 AW 3540C/8082 QA/QC Surrogates 62 % % DCBP 02/05/14 AW 30 - 150 % 64 % % TCMX 02/05/14 AW 30 - 150 %

Client ID: 020414KN-10

Phoenix I.D.: BG05735

RL/

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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Phyllis Shiller, Laboratory Director

February 10, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 10, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix: SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

Custody Information

Collected by:

SW

<u>Date</u> 02/04/14 <u>Time</u> 0:00

Received by: Analyzed by:

see "By" below

02/04/14

13:44

20110979A2E

aboratory Data

SDG ID: GBG05726

Phoenix ID: BG05736

Project ID:

DISCOVERY ACADEMY

Client ID:

020414KN-11

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	95		%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/07/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.88	mg/kg	02/07/14	AW	3540C/8082
PCB-1221	ND	0.88	mg/kg	02/07/14	AW	3540C/8082
PCB-1232	ND	0.88	mg/kg	02/07/14	AW	3540C/8082
PCB-1242	ND	0.88	mg/kg	02/07/14	AW	3540C/8082
PCB-1248	ND	0.88	mg/kg	02/07/14	AW	3540C/8082
PCB-1254	ND	0.88	mg/kg	02/07/14	AW	3540C/8082
PCB-1260	ND	0.88	mg/kg	02/07/14	AW	3540C/8082
PCB-1262	ND	0.88	mg/kg	02/07/14	AW	3540C/8082
PCB-1268	ND	0.88	mg/kg	02/07/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	76		%	02/07/14	AW	30 - 150 %
% TCMX	82		%	02/07/14	AW	30 - 150 %

Client ID: 020414KN-11

Phoenix I.D.: BG05736

RL/

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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Phyllis Shiller, Laboratory Director

February 10, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 10, 2014

FOR: Att

SW

see "By" below

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

Matrix: SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

Laboratory Data

**Custody Information** 

Collected by:

Received by:

Analyzed by:

SDG ID: GBG05726

Date

02/04/14

02/04/14

<u>Time</u>

0:00

13:44

Phoenix ID: BG05737

Project ID:

DISCOVERY ACADEMY

Client ID:

020414KN-12

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	94		%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.57	mg/kg	02/05/14	AW	3540C/8082
PCB-1221	ND	0.57	mg/kg	02/05/14	AW	3540C/8082
PCB-1232	ND	0.57	mg/kg	02/05/14	AW	3540C/8082
PCB-1242	ND	0.57	mg/kg	02/05/14	AW	3540C/8082
PCB-1248	ND	0.57	mg/kg	02/05/14	AW	3540C/8082
PCB-1254	ND	0.57	mg/kg	02/05/14	AW	3540C/8082
PCB-1260	ND	0.57	mg/kg	02/05/14	AW	3540C/8082
PCB-1262	ND	0,57	mg/kg	02/05/14	AW	3540C/8082
PCB-1268	ND	0.57	mg/kg	02/05/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	33		%	02/05/14	AW	30 - 150 %
% TCMX	35		%	02/05/14	AW	30 - 150 %

Client ID: 020414KN-12

Phoenix I.D.: BG05737

RL

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 10, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 10, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix: SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

Custody Information

Collected by: Received by:

Analyzed by:

sw

w

see "By" below

**Laboratory Data** 

SDG ID: GBG05726

<u>Time</u>

0:00

13:44

Phoenix ID: BG05738

Date

02/04/14

02/04/14

Project ID:

DISCOVERY ACADEMY

Client ID:

020414KN-17

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1254	0.74	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	78		%	02/05/14	AW	30 - 150 %
% TCMX	84		%	02/05/14	AW	30 - 150 %
% DCBP % TCMX				X907.030(X)		

Client ID: 020414KN-17

Phoenix I.D.: BG05738

RL/

Parameter Result PQL

Date/Time

y Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 10, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Units



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 10, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

Matrix: SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

**Custody Information** 

Collected by:

Analyzed by:

Received by:

SW

see "By" below

Time 0:00 13:44

02/04/14

Date

02/04/14

P.O.#:

20110979A2E

aboratory Data

SDG ID: GBG05726

Phoenix ID: BG05739

Project ID:

DISCOVERY ACADEMY

Client ID:

020414KN-18

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.71	mg/kg	02/05/14	AW	3540C/8082
PCB-1221	ND	0.71	mg/kg	02/05/14	AW	3540C/8082
PCB-1232	ND	0.71	mg/kg	02/05/14	AW	3540C/8082
PCB-1242	ND	0.71	mg/kg	02/05/14	AW	3540C/8082
PCB-1248	ND	0.71	mg/kg	02/05/14	AW	3540C/8082
PCB-1254	ND	0.71	mg/kg	02/05/14	AW	3540C/8082
PCB-1260	ND	0.71	mg/kg	02/05/14	AW	3540C/8082
PCB-1262	ND	0.71	mg/kg	02/05/14	AW	3540C/8082
PCB-1268	ND	0.71	mg/kg	02/05/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	80		%	02/05/14	AW	30 - 150 %
% TCMX	74		%	02/05/14	AW	30 - 150 %

Client ID: 020414KN-18

Phoenix I.D.: BG05739

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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if there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 10, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

P.O.#:

February 10, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	Date	Time
Matrix:	SOLID	Collected by:		02/04/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/04/14	13:44
CONTRACTOR OF THE PROPERTY OF THE PARTY.	Charles A. D. College College	2017/MT 11 G 7 T 1			

Rush Request: 72 Hour Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBG05726 Phoenix ID: BG05740

Project ID: DISCOVERY ACADEMY
Client ID: 020414KN-DUP

20110979A2E

RL Parameter Result PQL Units Date/Time By Reference Percent Solid 96 02/04/14 KDB E160.3 % Extraction for PCB Completed 02/04/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.73 02/05/14 mg/kg AW 3540C/8082 PCB-1221 ND 0.73 02/05/14 3540C/8082 mg/kg AW PCB-1232 ND 0.73 mg/kg 02/05/14 AW 3540C/8082 PCB-1242 ND 0.73 02/05/14 AW 3540C/8082 mg/kg ND 0.73 02/05/14 PCB-1248 mg/kg AW 3540C/8082 0.73 PCB-1254 ND mg/kg 02/05/14 3540C/8082 PCB-1260 ND 0.73 02/05/14 3540C/8082 mg/kg AW PCB-1262 ND 0.73 mg/kg 02/05/14 AW 3540C/8082 PCB-1268 ND 0.73 02/05/14 3540C/8082 mg/kg **QA/QC Surrogates** % DCBP 46 % 02/05/14 30 - 150 % % TCMX 02/05/14 49 % 30 - 150 %

Client ID: 020414KN-DUP

Phoenix I.D.: BG05740

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 10, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Page 30 of 30 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

February 10, 2014

## QA/QC Data

SDG I.D.: GBG05726

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 266011, QC Sa	mple No: BG05382 (BG05	726, BG05727, BG	05728, E	BG0572	9, BG	)5730, E	3G0573	1, BG057	'32)
Polychlorinated Bipheny	<u>rls</u>								
PCB-1016		85	84	1.2				40 - 140	30
PCB-1221								40 - 140	30
PCB-1232								40 - 140	30
PCB-1242								40 - 140	30
PCB-1248								40 - 140	30
PCB-1254								40 - 140	30
PCB-1260		96	93	3.2				40 - 140	30
PCB-1262								40 - 140	30
PCB-1268								40 - 140	30
% DCBP (Surrogate Rec)		94	92	2.2				30 - 150	30
% TCMX (Surrogate Rec) Comment:		81	77	5.1				30 - 150	30
A LCS and LCS Duplicate were Batch of samples.	performed instead of a matrix	spike and matrix spik	e duplica	te. No E	Blank da	ta could	be repor	ted with thi	is
QA/QC Batch 266062, QC Sa BG05740)	mple No: BG06048 (BG05	733, BG05734, BG	05735, 1	BG0573	86, BG(	)5737, E	3G0573	8, BG057	39,
Polychlorinated Bipheny	rls - Solid								
PCB-1016	ND	84	86	2.4	121	128	5.6	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	88	91	3.4	94	96	2.1	40 - 140	30
CB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	86	93	90	3.3	101	104	2.9	30 - 150	30
% TCMX (Surrogate Rec)	73	84	82	2.4	83	85	2.4	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

February 10, 2014

Analysis

RL Criteria

Criteria

몺

Result

# Sample Criteria Exceedences Report

GBG05726 - FO-PCB

Criteria

Phoenix Analyte

Monday, February 10, 2014

Criteria: None State: CT

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance. SampNo Acode

# Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

_aboratory				nmental Labs	, Inc.	Client:		Fus	s & O'Neill,	Inc.	
Project Loc	ation:	DISCO	VERY A	CADEMY		Project	t Numb	er:			
Laboratory	Sample	ID(s):		6, BG05727, 3, BG05734, 0							
Sampling D	ate(s):	2/4/20	14								
RCP Metho	ds Used	:									
1311/1312	<b>601</b>	0 [	7000	7196	☐ 74	70/7471	□ 80	81	☐ EPH		TO15
8082	□ 815	1 [	8260	8270	☐ E1	ГРН	□ 90	10/9012	☐ VPH		
specifie any crit	d QA/QC eria falling	perform outside	nance crite e of accep	nced in this lateria followed, intable guidelined	ncluding es, as sp	the requeecified i	uirement	to explain	☑ Yes	□ No	
1a. Were th	e method	specifi	ed preser	vation and hol	ding time	require	ments m	net?	✓ Yes	□No	
				the VPH or E on 11.3 of res				ithout	☐ Yes	□ No	<b>☑</b> NA
				aboratory in a i-of-Custody d			stent with	that	☑ Yes	□ No	
3. Were s	amples re	ceived	at an appr	opriate tempe	rature (<	6 Degre	ees C)?		✓ Yes	□ No	□NA
	I QA/QC   I docume			ria specified in	the Rea	asonable	e Confide	ence	✓ Yes	□ No	
5a. Were re	porting li	mits spe	ecified or r	eferenced on	the chai	n-of-cust	tody?		✓ Yes	□ No	
5b. Were th	ese repo	rting lim	nits met?						✓ Yes	□No	□NA
results	reported f	or all co	onstituents	nced in this lat identified in t idence Protoc	he metho	od-speci			✓ Yes	□ No	□NA
7. Are pro	ect-speci	fic matr	ix spikes a	and laboratory	duplicat	es includ	ded in th	e data set?	☐Yes	₩ No	□NA
be prov the req I, the unde and belief	ided in an uirements rsigned, and base	attache for "Re attest	ed narrative asonable C under the on my pe	onse was "No" e. If the answe confidence". ne pains and rsonal inqui	r to ques I penalt ry of th	tion #1, # ties of p	#1A or 16 Derjury Sponsit	that, to the	e data packa ne best of oviding the	nge does r	wlegde
							L	A TO MAKE	av čer	A 0 65	2.3.5
Authorized		4	r.,	See		Ball			lay, Februa	ry 10, 20	014
Signature:		w	ian	see		_ Prir		me: Ethar			
							Posit	ion: Proje	ct Manage	0	



87 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **RCP Certification Report**

February 10, 2014

SDG 1.D.: GBG05726

### **PCB Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

Au-ecd1 02/06/14-1 (BG05726)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name

Adam Werner

Position: Date: Chemist 2/6/2014

Instrument:

Au-ecd24 02/05/14-1 (BG05733, BG05734, BG05735, BG05736, BG05737,

BG05738, BG05739, BG05740)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds; none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name

Adam Werner

Position: Date: Chemist 2/5/2014

Instrument:

Au-ecd24 02/06/14-1 (BG05730, BG05731, BG05732)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** 

Adam Werner

Position:

Chemist

Date:

2/6/2014

Instrument:

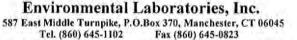
Au-ecd3 02/06/14-1 (BG05727, BG05728, BG05729)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds; none

The continuing calibration standards were within acceptance criteria except for the following compounds: none







# **RCP Certification Report**

February 10, 2014

SDG I.D.: GBG05726

Printed Name Adam Werner Chemist Date: 2/6/2014

Date:

QC Comments:

OC Batch 266011 02/03/14 (BG05726, BG05727, BG05728, BG05729, BG05730,

BG05731, BG05732)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate. No Blank data could be reported with this Batch of samples.

### QC (Batch Specific)

----- Sample No: BG05382, QA/QC Batch: 266011 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BG06048, QA/QC Batch: 266062 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

### **Temperature Narration**

The samples were received at 1C with cooling initiated. (Note acceptance criteria is above freezing up to 6°C)



146 Hartford Road, Manchester, CT 06040
556 Quarry Road, Trumbull, CT 06611
1419 Richland Street, Columbia, SC 29201
78 Interstate Drive, West Springfield, MA 01089

So Reoffield Speer, Suite 100, Boston, MA 02122
 275 Promenade Street, Suite 350, Providence, RI 02908
 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

(days) LABORATORY PHOENIX 3 Other (da \*Surcharge Applies Containers days) 3 Days\* 20110979, AZE U 1 Day\* 1716 COMPERAND AVE, WETHERSTIED CONTRIBER 1321 Request Analysis CHAIN-OF-CUSTODY RECORD REPORT TO: MATHLEEN PANE DISCOVERY ACADEMY PROJECT NAME

omments mood | lost | most | mo 000 00 03 @ () 6 0 0 000 00 0 Through Through Through 1 PPM Reporting and Detection Limit Requirements: TOTAL CONTROL TO THE PROPERTY OF THE PARTY O 05727 15733 05728 62450 05735 05730 05732 0573 Y 05731 Time Date Time Date: 2-4-14 Dare W=Waste A=Air Accepted By Source 60 10-5 हे B -05 10 9 8 8 REDFIELD S=Soil B=Sediment Sample Number ASE PW=Potable Water T=Treatment Facility 020414 INVOICE TO: HARRON 20110879 BRICK Sampler's Signature: 🗡 Source Codes: MW=Monitoring Well Transfer Check m SW=Surface Water 7 P.O. No.: X=Other Transfer Number No. 3 7 5 9 1 t o σ

2/4/14/1344 Additional Comments NORTH STRIRWEL WINDOWS (50) PREAH

Maradise

2 3

OSAMPLES @ CAD"-O,5" BEPTH Q LOT FRET VERTICAL Q WEST VERTICAL



50 Redifiell Street, Suite 100, Boston, MA 02122
 275 Promenade Street, Suite 350, Providence, RI 02908
 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

(days)

\*Surcharge Applies a Other

-days)

O Standard

0 1 Day\*

1322

CHAIN-OF-CUSTODY RECORD

DISCOVERY ACASEM	PROJECT LOCATION	1710 LIMBERLAND AVE, WETHERSHELD (T 2011 0979, AZE	LABORATORY PHOENIX
REPORT TO: HATHWEN PANE	PANE	Analysis /////	Containers
INVOICE TO: HARRON	Rebriedo	Request (4)	E/////////////////////////////////////
P.O. NO: 20110979.43E	.ASE		/
Sampler's Signature:	14 Date: 2-4-14	10	M90 (110)
Source Codes:  MW=Monitoring Well PW=Pouble Water SW=Surface Water T=Treatment Facility X=Other	/ ater S=Soil W=Waste acility B=Sediment A=Air	1101	20 ( ) 20
	Sample Number Source Date Til	18 40A 103 18 40A 103 18 40A 103	201 201 2016 20 100 2016 20 100 2016
	× =-	1	0
Č,	- 0	1 05737 1	9
18	13	*	000
T.	+	5	(S)
13	35-		(S)
2	011	- - - - - -	®\(\text{\tint{\text{\tin}\}\\ \text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\texi}\text{\text{\text{\text{\texi\tint{\texi}\tint{\tiint{\texi}\text{\text{\text{\text{\text{\texi}\text{\texi}\texit{\ti
11	- C-	1 05738 1	<u>©</u>
8	- 81-	1 05739 1	<b>©</b>
6)	> 000-	1 0hLS0 /	<b>©</b>
Transfer Kginquishge By	Accepted By	Date Time Reporting and Detection Limit Requirements: 2 PDPM	4 ppm
- 245	(May a dure 2	2/4/10 1344 Additional Comments: NORTH STAIRCHELL WINDOWS & AREA 4	WELL WINDOWS ED AREAL
2		OSAMPLE @ 0.0"-0.5" DEPTH	" Бертн
3		3 West Variable	
		3	

4



Tuesday, February 11, 2014

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Project ID: DISCOVERY ACADEMY Sample ID#s: BG07049 - BG07058

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 11, 2014

FOR: Attn: Ms Kathleen Pane

SW

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix: SOLID

Location Code: F&O-PCB

Rush Request: 7

72 Hour

P.O.#:

20110979A2E

Analyzed by: see "By" below

Laboratory Data

**Custody Information** 

Collected by:

Received by:

SDG ID: GBG07049

Time

0:00

16:29

Phoenix ID: BG07049

Date

02/06/14

02/06/14

Project ID: DISCOVERY ACADEMY

Client ID: 020614-SV-27

RL Parameter PQL Result Units Date/Time By Reference Percent Solid 100 02/06/14 E160.3 Extraction for PCB Completed 02/06/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.75 mg/kg 02/07/14 AW 3540C/8082 PCB-1221 ND 0.75 02/07/14 AW 3540C/8082 mg/kg ND 0.75 PCB-1232 02/07/14 3540C/8082 mg/kg AW ND 0.75 PCB-1242 02/07/14 3540C/8082 mg/kg AW PCB-1248 ND 0.75 02/07/14 AW 3540C/8082 mg/kg ND PCB-1254 0.75 02/07/14 AW 3540C/8082 mg/kg PCB-1260 ND 0.75 02/07/14 AW 3540C/8082 mg/kg PCB-1262 ND 0.75 mg/kg 02/07/14 AW 3540C/8082 PCB-1268 ND 0.75 02/07/14 3540C/8082 mg/kg AW **QA/QC Surrogates** 78 % DCBP % 02/07/14 AW 30 - 150 % 77 30 - 150 % % TCMX % 02/07/14

Client ID: 020614-SV-27

Phoenix I.D.: BG07049

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 11, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

 Sample Information
 Custody Information
 Date
 Time

 Matrix:
 SOLID
 Collected by:
 02/06/14
 0:00

 Location Code:
 F&O-PCB
 Received by:
 SW
 02/06/14
 16:29

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979A2E Laboratory Data SDG ID: GBG07049

Phoenix ID: BG07050

Project ID: DISCOVERY ACADEMY

Client ID: 020614-SV-28

RL Parameter Result PQL Units Date/Time By Reference Percent Solid 100 % 02/06/14 E160.3 Completed 02/06/14 PP/X SW3540C Extraction for PCB PCB (Soxhlet) ND 0.49 02/07/14 AW 3540C/8082 PCB-1016 mg/kg PCB-1221 ND 0.49 mg/kg 02/07/14 AW 3540C/8082 ND 0.49 02/07/14 AW 3540C/8082 PCB-1232 mg/kg ND 0.49 02/07/14 AW 3540C/8082 PCB-1242 mg/kg PCB-1248 ND 0.49 mg/kg 02/07/14 AW 3540C/8082 ND 0.49 02/07/14 AW 3540C/8082 PCB-1254 mg/kg PCB-1260 ND 0.49 02/07/14 AW 3540C/8082 mg/kg ND 0.49 02/07/14 3540C/8082 PCB-1262 AW mg/kg 3540C/8082 PCB-1268 ND 0.49 mg/kg 02/07/14 QA/QC Surrogates 77 % % DCBP 02/07/14 AW 30 - 150 % 77 % 02/07/14 30 - 150 % % TCMX

Client ID: 020614-SV-28

RL

Parameter Result PQL Units Date/Time B

By Reference

Phoenix I.D.: BG07050

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 11, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102

Analysis Report

February 11, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

SOLID Matrix:

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

Custody Information

Collected by: Received by:

SW

02/06/14

02/06/14

Date

Time 0:00 16:29

Analyzed by:

see "By" below

**Laboratory Data** 

SDG ID: GBG07049

Phoenix ID: BG07051

Project ID:

**DISCOVERY ACADEMY** 

Client ID:

020614-SV-29

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/06/14	- ):	E160.3
Extraction for PCB	Completed			02/06/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.49	mg/kg	02/07/14	AW	3540C/8082
PCB-1221	ND	0.49	mg/kg	02/07/14	WA	3540C/8082
PCB-1232	ND	0.49	mg/kg	02/07/14	AW	3540C/8082
PCB-1242	ND	0.49	mg/kg	02/07/14	AW	3540C/8082
PCB-1248	ND	0.49	mg/kg	02/07/14	AW	3540C/8082
PCB-1254	ND	0.49	mg/kg	02/07/14	AW	3540C/8082
PCB-1260	ND	0.49	mg/kg	02/07/14	AW	3540C/8082
PCB-1262	ND	0.49	mg/kg	02/07/14	AW	3540C/8082
PCB-1268	ND	0.49	mg/kg	02/07/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	78		%	02/07/14	AW	30 - 150 %
% TCMX	41		%	02/07/14	AW	30 - 150 %

Client ID: 020614-SV-29

Phoenix I.D.: BG07051

RL

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 11, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

Custody Information

Collected by: Received by:

SW

02/06/14

Date

<u>Time</u>

02/06/14

0:00 16:29

Analyzed by:

aboratory Data

see "By" below

SDG ID: GBG07049

Phoenix ID: BG07052

Project ID:

DISCOVERY ACADEMY

Client ID:

020614-SV-30

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/06/14	- 1	E160.3
Extraction for PCB	Completed			02/06/14	PP/X	SW3540C
PCB (Soxhlet)		Sect 3				
PCB-1016	ND	0.69	mg/kg	02/07/14	AW	3540C/8082
PCB-1221	ND	0.69	mg/kg	02/07/14	AW	3540C/8082
PCB-1232	ND	0.69	mg/kg	02/07/14	AW	3540C/8082
PCB-1242	ND	0.69	mg/kg	02/07/14	AW	3540C/8082
PCB-1248	ND	0.69	mg/kg	02/07/14	AW	3540C/8082
PCB-1254	ND	0.69	mg/kg	02/07/14	AW	3540C/8082
PCB-1260	ND	0.69	mg/kg	02/07/14	AW	3540C/8082
PCB-1262	ND	0.69	mg/kg	02/07/14	AW	3540C/8082
PCB-1268	ND	0.69	mg/kg	02/07/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	82		%	02/07/14	AW	30 - 150 %
% TCMX	81		%	02/07/14	AW	30 - 150 %

Client ID: 020614-SV-30

Phoenix I.D.: BG07052

RL

Parameter Result PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 11, 2014



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	nation	Date	Time	
Matrix:	SOLID	Collected by:	11	02/06/14	0:00	
Location Code:	F&O-PCB	Received by:	sw	02/06/14	16:29	
Rush Request:	72 Hour	Analyzed by:	see "By" below	CONT. 10		

P.O.# 20110979A2E

Laboratory Data

SDG ID: GBG07049

Phoenix ID: BG07053

DISCOVERY ACADEMY Project ID:

Client ID: 020614-SV-31

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100	-	%	02/06/14	1	E160.3
Extraction for PCB	Completed			02/06/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.71	mg/kg	02/07/14	AW	3540C/8082
PCB-1221	ND	0.71	mg/kg	02/07/14	AW	3540C/8082
PCB-1232	ND	0.71	mg/kg	02/07/14	AW	3540C/8082
PCB-1242	ND	0.71	mg/kg	02/07/14	AW	3540C/8082
PCB-1248	ND	0.71	mg/kg	02/07/14	AW	3540C/8082
PCB-1254	ND	0.71	mg/kg	02/07/14	AW	3540C/8082
PCB-1260	ND	0.71	mg/kg	02/07/14	AW	3540C/8082
PCB-1262	ND	0.71	mg/kg	02/07/14	AW	3540C/8082
PCB-1268	ND	0.71	mg/kg	02/07/14	AW	3540C/8082
QA/QC Surrogates				223107		00100/0002
% DCBP	82		%	02/07/14	AW	30 - 150 %
% TCMX	84		%	02/07/14	AW	30 - 150 %

Client ID: 020614-SV-31

Phoenix I.D.: BG07053

RL

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 11, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 11, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

**Custody Information** 

Received by:

Analyzed by:

Collected by:

aboratory Data

SW

02/06/14 02/06/14

Date

Time 0:00 16:29

see "By" below

SDG ID: GBG07049

Phoenix ID: BG07054

Project ID:

DISCOVERY ACADEMY

Client ID:

020614-SV-32

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/06/14	- 1-	E160.3
Extraction for PCB	Completed			02/06/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0,7	mg/kg	02/07/14	AW	3540C/8082
PCB-1221	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
PCB-1232	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
PCB-1242	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
PCB-1248	ND	0,7	mg/kg	02/07/14	AW	3540C/8082
PCB-1254	ND	0,7	mg/kg	02/07/14	AW	3540C/8082
PCB-1260	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
PCB-1262	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
PCB-1268	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
QA/QC Surrogates			100			
% DCBP	80		%	02/07/14	AW	30 - 150 %
% TCMX	80		%	02/07/14	AW	30 - 150 %

Client ID: 020614-SV-32

RL/ PQL

Parameter Result

Units

Date/Time

By Reference

Phoenix I.D.: BG07054

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 11, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2014

FOR: Attn: Ms Kathleen Pane

> Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

**Custody Information** 

Received by:

Analyzed by:

Collected by:

SW

see "By" below

02/06/14 02/06/14

Date

Time 0:00 16:29

P.O.#:

20110979A2E

Laboratory Data

SDG ID: GBG07049

Phoenix ID: BG07055

Project ID:

DISCOVERY ACADEMY

Client ID:

020614-SV-33

Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/06/14	- 1	E160.3
Extraction for PCB	Completed			02/06/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
PCB-1221	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
PCB-1232	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
PCB-1242	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
PCB-1248	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
PCB-1254	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
PCB-1260	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
PCB-1262	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
PCB-1268	ND	0.7	mg/kg	02/07/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	80		%	02/07/14	AW	30 - 150 %
% TCMX	81		%	02/07/14	AW	30 - 150 %

Client ID: 020614-SV-33

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 11, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Phoenix I.D.: BG07055



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 11, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

see "By" below

Sample Informa	ation	Custody Inforn	nation	<u>Date</u>	Time
Matrix:	SOLID	Collected by:		02/06/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/06/14	16:29

Analyzed by:

Rush Request: 72 Hour

P.O.#:

20110979A2E

Laboratory Data

SDG ID: GBG07049

Phoenix ID: BG07056

Project ID:

DISCOVERY ACADEMY

Client ID:

020614-SV-34

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/06/14	-1-	E160.3
Extraction for PCB	Completed			02/06/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1221	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1232	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1242	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1248	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1254	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1260	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1262	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1268	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	78		%	02/07/14	AW	30 - 150 %
% TCMX	83		%	02/07/14	AW	30 - 150 %

Client ID: 020614-SV-34

Phoenix I.D.: BG07056

RL/

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 11, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 11, 2014

FOR: Attn: Ms

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information Custody Information <u>Date</u> Time Matrix: SOLID Collected by: 02/06/14 0:00 Location Code: F&O-PCB Received by: SW 02/06/14 16:29 Rush Request: 72 Hour Analyzed by: see "By" below

Laboratory Data

72 Hour Analyze 20110979A2E . .

SDG ID: GBG07049

Phoenix ID: BG07057

Project ID: DISCOVERY ACADEMY

Client ID: 020614-SV-35

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/06/14	-1	E160.3
Extraction for PCB	Completed			02/06/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1221	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1232	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1242	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1248	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1254	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1260	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1262	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
PCB-1268	ND	0.48	mg/kg	02/07/14	AW	3540C/8082
QA/QC Surrogates				20001114		
% DCBP	78		%	02/07/14	AW	30 - 150 %
% TCMX	82		%	02/07/14	AW	30 - 150 %

Client ID: 020614-SV-35

Phoenix I.D.: BG07057

RU

Parameter

Result

PQL Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 11, 2014



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Analysis Report

February 11, 2014

FOR: A

SW

see "By" below

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix: SOLID

Location Code: F&O-PCB

Rush Request: 72 H

P.O.#:

72 Hour

20110979A2E

<u>Date</u> 02/06/14 0:00

06/14

0:00

02/06/14

16:29

Laboratory Data

**Custody Information** 

Collected by:

Received by:

Analyzed by:

SDG ID: GBG07049

Phoenix ID: BG07058

Project ID:

DISCOVERY ACADEMY

Client ID:

020614-SV-DUP 2

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/06/14	1.1	E160.3
Extraction for PCB	Completed			02/06/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.47	mg/kg	02/07/14	AW	3540C/8082
PCB-1221	ND	0.47	mg/kg	02/07/14	AW	3540C/8082
PCB-1232	ND	0.47	mg/kg	02/07/14	AW	3540C/8082
PCB-1242	ND	0.47	mg/kg	02/07/14	AW	3540C/8082
PCB-1248	ND	0.47	mg/kg	02/07/14	AW	3540C/8082
PCB-1254	ND	0.47	mg/kg	02/07/14	AW	3540C/8082
PCB-1260	ND	0.47	mg/kg	02/07/14	AW	3540C/8082
PCB-1262	ND	0.47	mg/kg	02/07/14	AW	3540C/8082
PCB-1268	ND	0.47	mg/kg	02/07/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	74		%	02/07/14	AW	30 - 150 %
% TCMX	81		%	02/07/14	AW	30 - 150 %

Project ID: DISCOVERY ACADEMY Client ID: 020614-SV-DUP 2

Phoenix I.D.: BG07058

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 11, 2014



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# QA/QC Report

February 11, 2014

## QA/QC Data

SDG I.D.: GBG07049

Parameter	Blank	LCS	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 266239, QC Sa BG07056, BG07057, BG0705	mple No: BG06701 (BG07 8)	049, BG07050, BG	07051, I	3G0705	2, BG(	7053, E	3G0705	4, BG070	55,
Polychlorinated Bipheny	rls - Solid								
PCB-1016	ND	76	75	1.3				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	83	81	2.4				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	77	82	80	2.5				30 - 150	30
% TCMX (Surrogate Rec) Comment:	85	87	87	0.0				30 - 150	30
A LCS and LCS Duplicate were	performed instead of a matrix	spike and matrix spike	e duplica	le.					

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

February 11, 2014

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Sample Criteria Exceedences Report

Tuesday, February 11, 2014

Criteria: None

GBG07049 - FO-PCB

Result

R

Criteria

Analysis Units

RL Criteria

Criteria Phoenix Analyte

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance. \*\*\* No Data to Display \*\*\* Acode State: CT SampNo

# Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

1311/1312	☐ EPH ☐ TO15 ☐ VPH  sin
specified QA/QC performance criteria followed, including the requirement to expla any criteria falling outside of acceptable guidelines, as specified in the CT DEP	
	☑ Yes ☐ No
Were the method specified preservation and holding time requirements met?	
EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ N
Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ N
Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	✓ Yes □ No
Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes □ No
Were these reporting limits met?	☑ Yes ☐ No ☐ N
For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No ☐ N
Are project-specific matrix spikes and laboratory duplicates included in the data se	et? ☐ Yes ☑ No ☐ N
the undersigned, attest under the pains and penalties of perjury that, to be defined assed upon my personal inquiry of those responsible for penalties and based upon my personal inquiry of those responsible for pentained in this analytical report, such information is accurate and comp	the data package does not mee the best of my knowlegd providing the information
	esday, February 11, 2014
ignature: Ethan See Printed Name: Eth	an Lee siect Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **RCP Certification Report**

February 11, 2014

SDG I.D.: GBG07049

### **PCB Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

Au-ecd3 02/07/14-1 (BG07056, BG07057, BG07058)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name

Adam Werner

Position: Date: Chemist 2/7/2014

Instrument:

Au-ecd5 02/07/14-1 (BG07049, BG07050, BG07051, BG07052, BG07053,

BG07054, BG07055)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds; none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name A Position: C

Adam Werner Chemist

Date:

2/7/2014

QC Comments:

QC Batch 266239 02/06/14 (BG07049, BG07050, BG07051, BG07052, BG07053,

BG07054, BG07055, BG07056, BG07057, BG07058)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

### QC (Batch Specific)

----- Sample No: BG06701, QA/QC Batch: 266239 ------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

### Temperature Narration

The samples in this delivery group were received at 3°C. (Note acceptance criteria is above freezing up to 6°C)



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **RCP Certification Report**

February 11, 2014

SDG I.D.: GBG07049



# FUSS & O'NEILL ENVIROSCIENCE, LLC

(860) 646-2469 • www.FandO.com

146 Hanford Road, Manchester, CT 06040

56 Quarry Road, Trumboll, CT 06611

1419 Richland Street, Columbia, SC 29201

78 Interstate Drive, West Springfield, MA 01089

So Redfield Street, Suite 100, Boston, MA 02122
 275 Promenade Street, Suite 350, Providence, RI 02908
 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

(days) Other (day PHOENIX LABORATORY Containers (days) 3 Days\* 20110979, AZE O 1 Day\* PROJECT NUMBER 176 COMBERAND AVE, WETHERSFIELD CT 1320 CHAIN-OF-CUSTODY RECORD PROJECT LOCATION DISCOVERY ACADEMY PROJECT NAME

Request Analysis W=Waste A=Air S=Soil B=Sediment INVOICE TO: MARRON RAPPIELD REPORT TO: HATHLEN PANE 90.No: 201109 79.93E T=Treatment Facility PW=Pomble Water Sampler's Signature MW=Monitoring Well SW=Surface Water Source Codes:

BRICK

X=Other

07058 07053 07056 07057 07053 07051 07054 07055 07050 bhoLo (1) Comments SONOT - MORIE 1055H - 3088H ~lopm Reporting and Detection Limit Requirements: Time Date Time Date Accepted By Source × -37 -33 -33 -34 8 133 35 50 -31 - Maa Sample Number 020614-5V quished By 2 3 4 Transfer Check Transfer Number 30 33 No. 38 8 33 34 33 37 3

SIGNY 16729 Additional Comments STAP ARCEN to - SOUTH WALL WINDOWS-EAST 8 OSAMARE @ 0.0"-0.5" WEPPIN - Monida Zi Zi m 4 7



Tuesday, February 18, 2014

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Project ID: DISCOVERY ACADEMY Sample ID#s: BG08859 - BG08870

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Laboratory Director

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #MA-CT-007 ME Lab Registration #CT-007 NH Lab Registration #213693-A,B NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 18, 2014

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

 Sample Information
 Custody Information
 Date
 Time

 Matrix:
 SOLID
 Collected by:
 02/12/14
 0:00

 Location Code:
 F&O-PCB
 Received by:
 LB
 02/12/14
 15:29

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979.A2E Laboratory Data

ory Data SDG ID: GBG08859

Phoenix ID: BG08859

Project ID: DISCOVERY ACADEMY

Client ID: 021214-SV-01

RL Parameter Result PQL Units Date/Time By Reference Percent Solid 98 % 02/12/14 EG E160.3 Extraction for PCB Completed 02/12/14 BP/X SW3540C PCB (Soxhlet) 0.34 02/14/14 3540C/8082 PCB-1016 ND mg/kg AW PCB-1221 ND 0.34 mg/kg 02/14/14 AW 3540C/8082 0.34 02/14/14 AW 3540C/8082 PCB-1232 ND mg/kg ND 0.34 02/14/14 AW 3540C/8082 PCB-1242 mg/kg PCB-1248 ND 0.34 mg/kg 02/14/14 AW 3540C/8082 02/14/14 3540C/8082 PCB-1254 ND 0.34 mg/kg AW PCB-1260 ND 0.34 mg/kg 02/14/14 AW 3540C/8082 PCB-1262 ND 0.34 mg/kg 02/14/14 AW 3540C/8082 PCB-1268 ND 0.34 mg/kg 02/14/14 AW 3540C/8082 **QA/QC Surrogates** % DCBP 76 % 02/14/14 AW 30 - 150 % 02/14/14 30 - 150 % 91 % AW % TCMX

Page 1 of 24 Ver 1

Client ID: 021214-SV-01

Phoenix I.D.: BG08859

RL/

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 18, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 18, 2014

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

SOLID

Location Code:

F&O-PCB 72 Hour

Rush Request: P.O.#:

Matrix:

20110979.A2E

**Custody Information** 

Collected by:

Received by:

Analyzed by:

LB

02/12/14 02/12/14

**Date** 

Time 0:00 15:29

see "By" below

aboratory Data

SDG ID: GBG08859

Phoenix ID: BG08860

Project ID:

**DISCOVERY ACADEMY** 

Client ID:

021214-SV-02

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
	99		%	02/12/14	EG	E160.3
Percent Solid Extraction for PCB	Completed		76	02/12/14	BP/X	SW3540C
	(April Marie a					
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	76		%	02/14/14	AW	30 - 150 %
% TCMX	86		%	02/14/14	AW	30 - 150 %

Client ID: 021214-SV-02

Phoenix I.D.: BG08860

RL/

Parameter

Result PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 18, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Page 4 of 24

Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 18, 2014

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	Date	<u>Time</u>
Matrix:	SOLID	Collected by:		02/12/14	0:00
Location Code:	F&O-PCB	Received by:	LB	02/12/14	15:29
Rush Request:	72 Hour	Analyzed by:	see "By" below		

P.O.#: 20110979.A2E

**Laboratory Data** 

SDG ID: GBG08859

Phoenix ID: BG08861

Project ID: DISCOVERY ACADEMY

Client ID: 021214-SV-03

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	96		%	02/12/14	EG	E160.3
Extraction for PCB	Completed			02/12/14	BP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	72		%	02/14/14	AW	30 - 150 %
% TCMX	82		%	02/14/14	AW	30 - 150 %

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Client ID: 021214-SV-03

Phoenix I.D.: BG08861

RL/

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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Phyllis Shiller, Laboratory Director

February 18, 2014



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# Analysis Report

February 18, 2014

FOR

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	<u>ition</u>	<b>Custody Inforn</b>	nation	Date	Time
Matrix:	SOLID	Collected by:		02/12/14	0:00
Location Code:	F&O-PCB	Received by:	LB	02/12/14	15:29

Rush Request: 72 Hour Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBG08859

Phoenix ID: BG08862

Project ID: DISCOVERY ACADEMY

20110979.A2E

Client ID: 021214-SV-04

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	97		%	02/12/14	EG	E160.3
Extraction for PCB	Completed			02/12/14	BP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	02/14/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	82		%	02/14/14	AW	30 - 150 %
% TCMX	80		%	02/14/14	AW	30 - 150 %

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Client ID: 021214-SV-04

Phoenix I.D.: BG08862

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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Phyllis Shiller, Laboratory Director

February 18, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Page 8 of 24 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 18, 2014

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

Matrix:

20110979.A2E

<u>Custody Information</u>

Kill.

02/12/14

0:00

Collected by: Received by:

LB

02/12/14

Date

15:29

Time

Analyzed by: see

see "By" below

# **Laboratory Data**

SDG ID: GBG08859

Phoenix ID: BG08863

Project ID:

DISCOVERY ACADEMY

Client ID:

021214-SV-05

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/12/14	EG	E160.3
Extraction for PCB	Completed			02/12/14	BP/X	SW3540C
PCB (Soxhlet)						1
PCB-1016	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	77		%	02/14/14	AW	30 - 150 %
% TCMX	83		%	02/14/14	AW	30 - 150 %

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Client ID: 021214-SV-05

Phoenix I.D.: BG08863

RL/

PQL Result

Units

Date/Time

Ву Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

Parameter

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Phyllis Shiller, Laboratory Director

February 18, 2014



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# Analysis Report

February 18, 2014

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample	Information
--------	-------------

Matrix:

SOLID

F&O-PCB

Location Code: Rush Request:

72 Hour

P.O.#:

20110979.A2E

<u>Custody Information</u>

Collected by: Received by:

Analyzed by:

LB

<u>Date</u> 02/12/14 0:00 15:29

02/12/14

see "By" below

# **Laboratory Data**

SDG ID: GBG08859

Phoenix ID: BG08864

Project ID:

DISCOVERY ACADEMY

Client ID:

021214-SV-06

RL/

Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/12/14	EG	E160.3
Extraction for PCB	Completed			02/12/14	BP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	82		%	02/14/14	AW	30 - 150 %
% TCMX	89		%	02/14/14	AW	30 - 150 %

Client ID: 021214-SV-06

Phoenix I.D.: BG08864

RL/

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

February 18, 2014



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# Analysis Report

February 18, 2014

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	Date	Time
Matrix:	SOLID	Collected by:		02/12/14	0:00
Location Code:	F&O-PCB	Received by:	LB	02/12/14	15:29
Rush Request:	72 Hour	Analyzed by:	see "By" below		

Rush Request: 72 Hour P.O.#: 20110979.A2E

Laboratory Data

SDG ID: GBG08859

Phoenix ID: BG08865

Project ID: DISCOVERY ACADEMY

Client ID: 021214-SV-07

RL/ PQL Units Date/Time By Reference Parameter Result % 02/12/14 EG E160.3 Percent Solid 100 Completed 02/12/14 BP/X SW3540C Extraction for PCB PCB (Soxhlet) 02/14/14 3540C/8082 ND 0.33 mg/kg AW PCB-1016 02/14/14 3540C/8082 AW PCB-1221 ND 0.33 mg/kg ND 0.33 mg/kg 02/14/14 AW 3540C/8082 PCB-1232 02/14/14 AW 3540C/8082 ND 0.33 mg/kg PCB-1242 02/14/14 AW 3540C/8082 ND 0.33 PCB-1248 mg/kg 02/14/14 AW 3540C/8082 ND 0.33 mg/kg PCB-1254 02/14/14 AW 3540C/8082 PCB-1260 ND 0.33 mg/kg 02/14/14 AW 3540C/8082 0,33 ND mg/kg PCB-1262 0.33 02/14/14 AW 3540C/8082 ND mg/kg PCB-1268 **QA/QC Surrogates** % 02/14/14 AW 30 - 150 % 85 % DCBP 87 % 02/14/14 AW 30 - 150 % % TCMX

Client ID: 021214-SV-07

Phoenix I.D.: BG08865

RL

Parameter Result PQL Units Date/Time By Reference

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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Phyllis Shiller, Laboratory Director

February 18, 2014



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# **Analysis Report**

February 18, 2014

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	<u>nation</u>	<u>Date</u>	Time
Matrix:	SOLID	Collected by:		02/12/14	0:00
Location Code:	F&O-PCB	Received by:	LB	02/12/14	15:29
Rush Request:	72 Hour	Analyzed by:	see "By" below		

aboratory Data SDG ID: GBG08859

Phoenix ID: BG08866

Project ID: DISCOVERY ACADEMY

Client ID: 021214-SV-08

RL/ Parameter Result PQL Units Date/Time Ву Reference Percent Solid 100 % 02/12/14 E160.3 EG Completed Extraction for PCB 02/12/14 BP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.33 mg/kg 02/14/14 AW 3540C/8082 PCB-1221 ND 0.33 02/14/14 AW 3540C/8082 mg/kg PCB-1232 ND 0.33 mg/kg 02/14/14 AW 3540C/8082 PCB-1242 ND 0.33 3540C/8082 mg/kg 02/14/14 AW PCB-1248 ND 0.33 02/14/14 AW 3540C/8082 mg/kg PCB-1254 ND 0.33 mg/kg 02/14/14 AW 3540C/8082 ND 0.33 PCB-1260 02/14/14 3540C/8082 mg/kg AW PCB-1262 ND 0.33 3540C/8082 mg/kg 02/14/14 AW 0.33 3540C/8082 PCB-1268 ND mg/kg 02/14/14 AW **QA/QC Surrogates** % DCBP 85 % 02/14/14 AW 30 - 150 % % TCMX 83 % 02/14/14 AW 30 - 150 %

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Client ID: 021214-SV-08

Phoenix I.D.: BG08866

RL/

Result PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

Parameter

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Phyllis Shiller, Laboratory Director

February 18, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 18, 2014

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	<b>Custody Information</b>	Date	<u>Time</u>
Matrix:	SOLID	Collected by:	02/12/14	0:00
Location Code:	F&O-PCB	Received by: LB	02/12/14	15:29

Rush Request: 72 Hour Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBG08859

Phoenix ID: BG08867

Project ID: DISCOVERY ACADEMY

20110979.A2E

Client ID: 021214-SV-09

P.O.#:

RL/ Parameter Result PQL Units Date/Time By Reference Percent Solid 99 % 02/12/14 E160.3 EG Extraction for PCB Completed 02/12/14 BP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.33 mg/kg 02/14/14 AW 3540C/8082 PCB-1221 ND 0.33 3540C/8082 mg/kg 02/14/14 AW PCB-1232 0.33 ND mg/kg 02/14/14 3540C/8082 AW PCB-1242 ND 0.33 mg/kg 02/14/14 AW 3540C/8082 PCB-1248 ND 0.33 mg/kg 02/14/14 3540C/8082 AW PCB-1254 ND 0.33 mg/kg 02/14/14 AW 3540C/8082 PCB-1260 ND 0.33 mg/kg 02/14/14 AW 3540C/8082 PCB-1262 ND 0.33 mg/kg 02/14/14 AW 3540C/8082 PCB-1268 ND 0.33 mg/kg 02/14/14 AW 3540C/8082 **QA/QC Surrogates** % DCBP 84 % 02/14/14 30 - 150 % AW % TCMX 83 % 02/14/14 AW 30 - 150 %

Client ID: 021214-SV-09

Phoenix I.D.: BG08867

RL/

Parameter PQL Units Result Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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Phyllis Shiller, Laboratory Director

February 18, 2014



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 18, 2014

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	<u>Date</u>	Time
Matrix:	SOLID	Collected by:		02/12/14	0:00
Location Code:	F&O-PCB	Received by:	LB	02/12/14	15:29
Rush Request:	72 Hour	Analyzed by:	see "By" below		

20110979.A2E P.O.#:

aboratory Data

SDG ID: GBG08859

Phoenix ID: BG08868

Project ID:

**DISCOVERY ACADEMY** 

021214-SV-10 Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	02/12/14	EG	E160.3
Extraction for PCB	Completed			02/12/14	BP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	86		%	02/14/14	AW	30 - 150 %
% TCMX	84		%	02/14/14	AVV	30 - 150 %

Client ID: 021214-SV-10

Phoenix I.D.: BG08868

RL/

Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

Parameter

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 18, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Page 20 of 24 Ver 1



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# Analysis Report

February 18, 2014

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	<u>Date</u>	Time
Matrix:	SOLID	Collected by:		02/12/14	0:00
Location Code:	F&O-PCB	Received by:	LB	02/12/14	15:29
Rush Request:	72 Hour	Analyzed by:	see "By" below		

**Laboratory Data** 

SDG ID: GBG08859

Phoenix ID: BG08869

Project ID: DISCOVERY ACADEMY

20110979.A2E

Client ID: 021214-SV-11

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	02/12/14	EG	E160.3
Extraction for PCB	Completed			02/12/14	BP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/14/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	73		%	02/14/14	AW	30 - 150 %
% TCMX	81		%	02/14/14	AW	30 - 150 %

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Client ID: 021214-SV-11

Phoenix I.D.: BG08869

RL/

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

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Phyllis Shiller, Laboratory Director

February 18, 2014



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 18, 2014

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	<u>nation</u>	<u>Date</u>	Time
Matrix:	SOLID	Collected by:		02/12/14	0:00
Location Code:	F&O-PCB	Received by:	LB	02/12/14	15:29
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	20110979.A2E	1 2 6 5 5 5 5 5	BOLD TO THE RESERVE OF THE PERSON OF THE PER	ene in	CDC000E

**Laboratory Data** 

SDG ID: GBG08859

Phoenix ID: BG08870

Project ID: DISCOVERY ACADEMY

Client ID: 021214-SV-12

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	02/12/14	EG	E160.3
Extraction for PCB	Completed			02/12/14	BP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.32	mg/kg	02/14/14	AW	3540C/8082
PCB-1221	ND	0.32	mg/kg	02/14/14	AW	3540C/8082
PCB-1232	ND	0.32	mg/kg	02/14/14	AW	3540C/8082
PCB-1242	ND	0.32	mg/kg	02/14/14	AW	3540C/8082
PCB-1248	ND	0.32	mg/kg	02/14/14	AW	3540C/8082
PCB-1254	ND	0.32	mg/kg	02/14/14	AW	3540C/8082
PCB-1260	ND	0.32	mg/kg	02/14/14	AW	3540C/8082
PCB-1262	ND	0.32	mg/kg	02/14/14	AVV	3540C/8082
PCB-1268	ND	0.32	mg/kg	02/14/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	76		%	02/14/14	AW	30 - 150 %
% TCMX	86		%	02/14/14	AW	30 - 150 %

Page 23 of 24 Ver 1

Client ID: 021214-SV-12

Phoenix I.D.: BG08870

RL/

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 18, 2014



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

February 18, 2014

### QA/QC Data

SDG I.D.: GBG08859

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 266687, QC Sa BG08866, BG08867, BG0886	mple No: BG08870 (BG08859, E 8, BG08869, BG08870)	3G08860, BG	08861,	BG08862	, BG	08863,	BG08864	, BG088	365,
Polychlorinated Bipheny	rls - Solid								
PCB-1016	ND	67	77	13.9	73	64	13.1	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	74	76	2.7	74	69	7.0	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	62	62	59	5.0	56	54	3.6	30 - 150	30
% TCMX (Surrogate Rec)	77	72	83	14.2	78	68	13.7	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

February 18, 2014

Analysis Units

# Sample Criteria Exceedences Report

GBG08859 - FO-PCB

RL Criteria Criteria R Result Criteria Phoenix Analyte

Wo Data to Display

Acode

SampNo

Tuesday, February 18, 2014

Criteria: None State: CT Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

## Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laborat	tory Name	: Phoe	enix Enviro	nmental Labs	, Inc.	Client:		Fuss 8	O'Neill,	Inc.	
Project	Location:	DISC	COVERY A	CADEMY		Project	Number:				
Laborat	tory Samp	le ID(s)	: BG0885 BG0886	9, BG08860, 6, BG08867,	BG08	3861, BG0 3868, BG0	08862, BG088 08869, BG088	863, B 870	G08864	BG088	65,
Samplir	ng Date(s)	: 2/12/	/2014								
RCP Me	ethods Us	ed:									
1311/	1312 🔲 6	010	<b>7000</b>	7196		7470/7471	□ 8081	C	EPH		TO15
8082	□ 8	151	8260	8270		ETPH	9010/9012	2 [	☐ VPH		
spe	ecified QA/0 y criteria fall	C perfo	rmance crite ide of accep	nced in this lab eria followed, in otable guideline dence Protoco	ncludir es, as	ng the requ specified in	irement to exp		✓ Yes	□ No	
1a. We	ere the meth	od spec	ified preser	vation and hold	ling tir	ne requirer	ments met?		✓ Yes	□No	
				s the VPH or E on 11.3 of resp					□ Yes	□ No	Ø NA
				aboratory in a i-of-Custody do			ent with that		✓ Yes	□ No	
3. We	ere samples	receive	d at an appr	opriate temper	ature	(< 6 Degre	es C)?		✓ Yes	□No	□NA
4. We	ere all QA/Q otocol docur	C perfor nents ac	mance crite chieved?	ria specified in	the R	easonable	Confidence		✓ Yes	□ No	
5a. We	ere reporting	limits s	pecified or r	eferenced on t	he cha	ain-of-custo	ody?		☐ Yes	₩ No	
5b. We	ere these rep	porting li	imits met?						□Yes	□ No	✓ NA
res	ults reporte	d for all	constituents	nced in this lab identified in th idence Protoco	e met	hod-specifi			✓ Yes	□ No	□NA
7. Are	project-spe	ecific ma	ıtrix spikes a	and laboratory	duplica	ates include	ed in the data	set?	✓ Yes	□ No	□NA
be		an attac	hed narrative	onse was "No" ( e. If the answer confidence".							
and bel	lief and ba	sed up	on my per	ne pains and rsonal inquir , such inforn	y of t	hose res	ponsible for	provid	ding the	ny knov inform	wlegde ation
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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **RCP Certification Report**

February 18, 2014

SDG I.D.: GBG08859

#### **PCB Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

Au-ecd1 02/14/14-1 (BG08865, BG08866, BG08867, BG08868, BG08869, BG08870)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner Position: Chemist

Date: 2/14/2014

Instrument: Au-ecd6 02/14/14-1 (BG08862, BG08863, BG08864)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist
Date: 2/14/2014

Instrument: Au-ecd7 02/14/14-1 (BG08870)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist Date: 2/14/2014

Instrument: Au-ecd8 02/14/14-1 (BG08859, BG08860, BG08861)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none





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# **RCP Certification Report**

February 18, 2014

SDG I.D.: GBG08859

**Printed Name** 

Adam Werner

Position:

Chemist

Date:

2/14/2014

#### QC (Site Specific)

----- Sample No: BG08870, QA/QC Batch: 266687 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

#### Temperature Narration

The samples were received at 5C with cooling initiated. (Note acceptance criteria is above freezing up to 6°C)

146 Hartford Road, Manchester, CT 08040
56 Quary Road, Trumbull, CT 06611
1419 Richland Street, Columbia, SC 29201
78 Interstate Drive, West Springfield, MA 01089 FUSS & O'NEILL ENVIROSCIENCE, LLC (860) 646-2469 • www.FandO.com Disciplines to Deliver

50 Redfield Street, Suite 100, Boston, MA 02122
 275 Promenade Street, Suite 350, Providence, RI 02908
 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

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Contact # 5%

150 Additional Comments:

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				CIENCE, LLC  2 146 Hartford Road Manchester, CT 06040  So Quarry Road, Trumbul, CT 06611  So Quarry Road, Trumbul, CT 06611  So Quarry Road, Trumbul, CT 06611  TODY RECORD  1327  PROJECT LOCATION  PROJECT NUMBER  Analysis  Request  N=Waste  Date: Z IZ IY   Source  Date Time
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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102

No. th Stone well

Time 0:00

13:44

## **Analysis Report**

February 07, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID F&O-PCB

Location Code:

72 Hour

Rush Request:

P.O.#:

20110979A2E

**Custody Information** 

Collected by:

Analyzed by:

Received by:

aboratory Data

SW

see "By" below

SDG ID: GBG05726 Phoenix ID: BG05726

Date

02/04/14

02/04/14

Project ID:

DISCOVERY ACADEMY

Client ID:

020414KN-01

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
The state of the s		, 42		7.03		
Percent Solid	96		%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1221	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1232	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1242	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1248	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1254	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1260	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1262	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1268	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	81		%	02/06/14	AW	30 - 150 %
% TCMX	82		%	02/06/14	AW	30 - 150 %

Page 1 of 30 Ver 1

Client ID: 020414KN-01

Phoenix I.D.: BG05726

RL/

Parameter Result PQL Units Date/Time By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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Phyllis Shiller, Laboratory Director

February 07, 2014

Page 2 of 30 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 07, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

Custody Information

Collected by:

Analyzed by:

Received by:

SW

see "By" below

02/04/14

Date

0:00

04/14 13:44

22/04/14

Laboratory Data

SDG ID: GBG05726

Phoenix ID: BG05727

Project ID:

DISCOVERY ACADEMY

Client ID:

020414KN-02

RL/ Parameter Result PQL Units Date/Time Bv Reference E160.3 Percent Solid 98 % 02/04/14 KDB Extraction for PCB Completed 02/04/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.5 3540C/8082 02/06/14 AW mg/kg PCB-1221 ND 0.5 mg/kg 02/06/14 AW 3540C/8082 PCB-1232 ND 0.5 mg/kg 02/06/14 AW 3540C/8082 PCB-1242 ND 0.5 02/06/14 AW 3540C/8082 mg/kg PCB-1248 ND 0.5 mg/kg 02/06/14 AW 3540C/8082 PCB-1254 ND 0.5 mg/kg 02/06/14 AW 3540C/8082 PCB-1260 ND 0.5 3540C/8082 02/06/14 AW mg/kg PCB-1262 ND 0.5 02/06/14 AW 3540C/8082 mg/kg PCB-1268 3540C/8082 ND 0.5 02/06/14 mg/kg AW QA/QC Surrogates % DCBP 77 % 02/06/14 AW 30 - 150 % 74 02/06/14 30 - 150 % % TCMX % AW

Page 3 of 30

Ver 1

Client ID: 020414KN-02

Phoenix I.D.: BG05727

RL/

PQL Units Date/Time By Reference Parameter Result

## RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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Phyllis Shiller, Laboratory Director

February 07, 2014

Ver 1 Page 4 of 30



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# **Analysis Report**

February 07, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	<u>nation</u>	<u>Date</u>	Time	
Matrix:	SOLID	Collected by:		02/04/14	0:00	
Location Code:	F&O-PCB	Received by:	sw	02/04/14	13:44	

Rush Request: 72 Hour Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBG05726

Phoenix ID: BG05728

Project ID: DISCOVERY ACADEMY

20110979A2E

Client ID: 020414KN-03

P.O.#:

RL/ Parameter PQL Result Units Date/Time By Reference Percent Solid 94 % 02/04/14 KDB E160.3 Extraction for PCB Completed 02/04/14 PP/X SW3540C PCB (Soxhlet) PCB-1016 ND 0.52 3540C/8082 mg/kg 02/06/14 AW PCB-1221 ND 0.52 mg/kg 02/06/14 AW 3540C/8082 PCB-1232 0.52 ND mg/kg 02/06/14 AW 3540C/8082 PCB-1242 ND 0.52 02/06/14 3540C/8082 mg/kg AW PCB-1248 ND 0.52 02/06/14 3540C/8082 mg/kg AW PCB-1254 ND 0.52 02/06/14 AW 3540C/8082 mg/kg PCB-1260 ND 0.52 mg/kg 02/06/14 AW 3540C/8082 PCB-1262 ND 0.52 3540C/8082 mg/kg 02/06/14 AW PCB-1268 ND 0.52 02/06/14 3540C/8082 mg/kg AW QA/QC Surrogates 72 % 02/06/14 30 - 150 % % DCBP AW % TCMX 77 % 02/06/14 AW 30 - 150 %

Page 5 of 30 Ver 1

Client ID: 020414KN-03

Phoenix I.D.: BG05728

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

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Phyllis Shiller, Laboratory Director

February 07, 2014

Page 6 of 30 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 07, 2014

FOR: Attn: Ms

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

Location Code:

Rush Request:

SOLID

F&O-PCB

72 Hour

P.O.#:

20110979A2E

Custody Information

Collected by:

Received by: Analyzed by:

SW

300

see "By" below

**Laboratory Data** 

SDG ID: GBG05726

Time

0:00

13:44

Ver 1

Phoenix ID: BG05729

Date

02/04/14

02/04/14

Project ID:

**DISCOVERY ACADEMY** 

Client ID:

020414KN-04

RL/

		RL/				
Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	95	\d.	%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/06/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/06/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/06/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/06/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/06/14	AW	3540C/8082
PCB-1254	ND	0.5	mg/kg	02/06/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/06/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/06/14	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	02/06/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	76		%	02/06/14	AW	30 - 150 %
% TCMX	77		%	02/06/14	AW	30 - 150 %

Page 7 of 30

Client ID: 020414KN-04

Phoenix I.D.: BG05729

RL/

Parameter Result PQL Units Date/Time By Reference

## RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

February 07, 2014

Page 8 of 30 Ver 1



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**Analysis Report** 

February 07, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

Location Code:

F&O-PCB

Rush Request:

20110979A2E

**Custody Information** 

Collected by:

Received by:

aboratory Data

SW

Date 02/04/14 Time 0:00

02/04/14

13:44

72 Hour

Analyzed by:

see "By" below

SDG ID: GBG05726

Phoenix ID: BG05730

Project ID:

DISCOVERY ACADEMY

Client ID:

Matrix:

P.O.#:

020414KN-05

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	97		%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1221	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1232	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1242	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1248	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1254	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1260	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1262	ND	0.62	mg/kg	02/06/14	AW	3540C/8082
PCB-1268	ND	0,62	mg/kg	02/06/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	84		%	02/06/14	AW	30 - 150 %
% TCMX	78		%	02/06/14	AW	30 - 150 %

Client ID: 020414KN-05

Phoenix I.D.: BG05730

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 07, 2014



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# Analysis Report

February 07, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

SOLID

Custody Information

Date

Time

Matrix: Location Code:

F&O-PCB

Collected by:

sw

02/04/14

0:00

Rush Request:

72 Hour

Received by: Analyzed by:

see "By" below

02/04/14 13:44

P.O.#:

20110979A2E

Laboratory Data

SDG ID: GBG05726

Phoenix ID: BG05731

Project ID:

**DISCOVERY ACADEMY** 

Client ID:

020414KN-06

RL/

Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	95		%	02/04/14	KDB	E160,3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1221	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1232	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1242	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1248	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1254	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1260	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1262	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
PCB-1268	ND	0.51	mg/kg	02/06/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	76		%	02/06/14	AW	30 - 150 %
% TCMX	70		%	02/06/14	AW	30 - 150 %
	199					

Page 11 of 30 Ver 1

Client ID: 020414KN-06

Phoenix I.D.: BG05731

RL/

PQL Units Date/Time Reference Parameter Result By

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis/Shiller, Laboratory Director

February 07, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 07, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	<b>Custody Information</b>	Date	Time	
Matrix:	SOLID	Collected by:	02/04/14	0:00	
Location Code:	F&O-PCB	Received by: SW	02/04/14	13:44	

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979A2E Laboratory Data SDG ID: GBG05726 Phoenix ID: BG05732

Project ID: DISCOVERY ACADEMY

Client ID: 020414KN-07

RL/ Parameter PQL Units Date/Time Ву Result Reference % Percent Solid 02/04/14 KDB E160.3 PP/X SW3540C Extraction for PCB Completed 02/04/14 PCB (Soxhlet) PCB-1016 ND 0.74 mg/kg 02/06/14 AW 3540C/8082 PCB-1221 ND 0.74 mg/kg 02/06/14 AW 3540C/8082 PCB-1232 ND 0.74 02/06/14 AW 3540C/8082 mg/kg PCB-1242 ND 0.74 mg/kg 02/06/14 AW 3540C/8082 3540C/8082 PCB-1248 ND 0.74 mg/kg 02/06/14 AW PCB-1254 ND 0.74 02/06/14 3540C/8082 mg/kg AW PCB-1260 ND 0.74 3540C/8082 mg/kg 02/06/14 AW PCB-1262 ND 0.74 mg/kg 02/06/14 AW 3540C/8082 PCB-1268 ND 0.74 mg/kg 02/06/14 AW 3540C/8082 **QA/QC Surrogates** 02/06/14 77 % AW 30 - 150 % % DCBP % TCMX 80 % 02/06/14 AW 30 - 150 %

Page 13 of 30 Ver 1

Client ID: 020414KN-07

Phoenix I.D.: BG05732

RL/

Parameter Result PQL Units Date/Time By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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Phyllis Shiller, Laboratory Director

February 07, 2014

Page 14 of 30 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 07, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Information	<u>Date</u>	Time
Matrix:	SOLID	Collected by:	02/04/14	0:00
Location Code:	F&O-PCB	Received by: SW	02/04/14	13:44

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979A2E Laboratory Data

SDG ID: GBG05726 Phoenix ID: BG05733

Project ID: DISCOVERY ACADEMY

Client ID: 020414KN-08

RL/ PQL Date/Time Parameter Result Units By Reference E160.3 Percent Solid 94 % 02/04/14 KDB PP/X SW3540C Extraction for PCB Completed 02/04/14 PCB (Soxhlet) PCB-1016 ND 0.58 mg/kg 02/05/14 AW 3540C/8082 3540C/8082 PCB-1221 ND 0.58 02/05/14 AW mg/kg PCB-1232 ND 0.58 02/05/14 AW 3540C/8082 mg/kg PCB-1242 ND 0.58 02/05/14 AW 3540C/8082 mg/kg 3540C/8082 PCB-1248 ND 0.58 02/05/14 AW mg/kg 02/05/14 3540C/8082 PCB-1254 ND 0.58 mg/kg AW 3540C/8082 PCB-1260 ND 0.58 mg/kg 02/05/14 AW ND 0.58 02/05/14 AW 3540C/8082 PCB-1262 mg/kg ND 0.58 02/05/14 AW 3540C/8082 PCB-1268 mg/kg QA/QC Surrogates 30 - 150 % 83 02/05/14 AW % DCBP % 77 02/05/14 AW 30 - 150 % % TCMX %

Client ID: 020414KN-08

Phoenix I.D.: BG05733

RL/

Parameter Result PQL Units Date/Time By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 07, 2014

Page 16 of 30 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 07, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	Custody Information		
Matrix:	SOLID	Collected by:		02/04/14	0:00
Location Code:	F&O-PCB	Received by:	SW	02/04/14	13:44

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979A2E Laboratory Data

SDG ID: GBG05726

Phoenix ID: BG05734

Project ID: DISCOVERY ACADEMY

Client ID: 020414KN-09

RL/ PQL Parameter Result Units Date/Time By Reference Percent Solid 98 % 02/04/14 **KDB** E160.3 PP/X SW3540C Extraction for PCB Completed 02/04/14 PCB (Soxhlet) PCB-1016 ND 0.68 02/05/14 AW 3540C/8082 mg/kg ND 0.68 02/05/14 AW 3540C/8082 PCB-1221 mg/kg 0.68 02/05/14 3540C/8082 PCB-1232 ND mg/kg AW PCB-1242 ND 0.68 02/05/14 AW 3540C/8082 mg/kg ND 0.68 02/05/14 AW 3540C/8082 PCB-1248 mg/kg 3540C/8082 PCB-1254 ND 0.68 02/05/14 AW mg/kg PCB-1260 ND 0.68 mg/kg 02/05/14 AW 3540C/8082 ND 0.68 02/05/14 AW 3540C/8082 PCB-1262 mg/kg ND 0.68 02/05/14 AW 3540C/8082 PCB-1268 mg/kg QA/QC Surrogates 80 02/05/14 AW 30 - 150 % % DCBP % 76 02/05/14 AW 30 - 150 % % TCMX %

Client ID: 020414KN-09

Phoenix I.D.: BG05734

RL/

Parameter Result PQL Units Date/Time By Reference

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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Phyllis Shiller, Laboratory Director

February 07, 2014

Page 18 of 30 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

February 07, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

F&O-PCB

Location Code: Rush Request:

72 Hour

P.O.#:

20110979A2E

**Custody Information** 

Collected by:

Analyzed by:

Received by:

SW

see "By" below

Date 02/04/14 Time 0:00

02/04/14

13:44

\_aboratory Data

SDG ID: GBG05726

Phoenix ID: BG05735

Project ID:

**DISCOVERY ACADEMY** 

Client ID:

020414KN-10

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	95		%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1221	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1232	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1242	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1248	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1254	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1260	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1262	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
PCB-1268	ND	0.58	mg/kg	02/05/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	62		%	02/05/14	AW	30 - 150 %
% TCMX	64		%	02/05/14	AW	30 - 150 %

Client ID: 020414KN-10

Phoenix I.D.: BG05735

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 07, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 07, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Information	<u>Date</u>	Time
Matrix:	SOLID	Collected by:	02/04/14	0:00
Location Code:	F&O-PCB	Received by: SW	02/04/14	13:44

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979A2E Laboratory Dat

aboratory Data SDG ID: GBG05726
Phoenix ID: BG05736

Project ID: DISCOVERY ACADEMY

Client ID: 020414KN-11

RL/ Parameter Result PQL Date/Time Units By Reference 95 % Percent Solid 02/04/14 **KDB** E160.3 02/07/14 SW3540C Extraction for PCB Completed AW PCB (Soxhlet) PCB-1016 ND 0.88 mg/kg 02/07/14 AW 3540C/8082 ND 0.88 AW 3540C/8082 PCB-1221 02/07/14 mg/kg PCB-1232 ND 0.88 02/07/14 AW 3540C/8082 mg/kg PCB-1242 ND 0.88 mg/kg 02/07/14 AW 3540C/8082 3540C/8082 PCB-1248 ND 0.88 mg/kg 02/07/14 AW ND 0.88 02/07/14 3540C/8082 PCB-1254 mg/kg AW ND 0.88 3540C/8082 PCB-1260 mg/kg 02/07/14 AW PCB-1262 ND 0.88 mg/kg 02/07/14 AW 3540C/8082 PCB-1268 ND 0.88 02/07/14 AW 3540C/8082 mg/kg QA/QC Surrogates % % DCBP 76 02/07/14 AW 30 - 150 % % TCMX 82 % 02/07/14 30 - 150 %

Page 21 of 30 Ver 1

Client ID: 020414KN-11

Phoenix I.D.: BG05736

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

February 07, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

February 07, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Samp	le In	forma	tion
------	-------	-------	------

Matrix:

SOLID

Collected by:

Date

<u>Time</u>

Location Code:

F&O-PCB

Received by:

**Custody Information** 

SW

02/04/14

02/05/14

0:00 13:44

Rush Request:

72 Hour

Analyzed by:

RL/

35

see "By" below

SDG ID: GBG05726

P.O.#:

20110979A2E

**Laboratory Data** 

Phoenix ID: BG05737

AW

30 - 150 %

Project ID:

**DISCOVERY ACADEMY** 

Client ID:

% TCMX

020414KN-12

Parameter	Result	PQL	Units	Date/Time	Ву	Reference	
Percent Solid	94		%	02/04/14	KDB	E160.3	
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C	
PCB (Soxhlet)							
PCB-1016	ND	0.57	mg/kg	02/05/14	AW	3540C/8082	
PCB-1221	ND	0.57	mg/kg	02/05/14	AW	3540C/8082	
DCR 1222	ND	0.57	malka	02/05/14	AM	35400/8082	

PCB-1232 02/05/14 3540C/8082 ND 0.57 mg/kg PCB-1242 ND 0.57 02/05/14 3540C/8082 mg/kg AW mg/kg PCB-1248 ND 0.57 02/05/14 AW 3540C/8082 PCB-1254 ND 02/05/14 3540C/8082 0.57 AW mg/kg PCB-1260 ND 0.57 mg/kg 02/05/14 AW 3540C/8082 PCB-1262 ND 0.57 02/05/14 AW 3540C/8082 mg/kg 3540C/8082 PCB-1268 ND 0.57 mg/kg 02/05/14 AW QA/QC Surrogates % DCBP 33 % 02/05/14 AW 30 - 150 %

%

Page 23 of 30

Ver 1

Client ID: 020414KN-12

Phoenix I.D.: BG05737

RL/

Result PQL Parameter

Units

Date/Time

Ву Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 07, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

February 07, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

F&O-PCB

Location Code: Rush Request:

72 Hour

P.O.#:

20110979A2E

**Custody Information** 

Collected by:

Received by:

SW

02/04/14

Date

Time 0:00

02/04/14

13:44

Analyzed by: see "By" below

aboratory Data

SDG ID: GBG05726

Phoenix ID: BG05738

Project ID:

DISCOVERY ACADEMY

Client ID:

020414KN-17

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98	7.77	%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1254	0.74	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	02/05/14	AW	3540C/8082
PCB-1268	ND	0,5	mg/kg	02/05/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	78		%	02/05/14	AW	30 - 150 %
% TCMX	84		%	02/05/14	AW	30 - 150 %

Client ID: 020414KN-17

Phoenix I.D.: BG05738

RL/

Parameter Result PQL Units Date/Time By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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Phyllis Shiller, Laboratory Director

February 07, 2014



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# **Analysis Report**

February 07, 2014

FOR: Att

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation .	Custody Inform	<u>nation</u>	Date	Time
Matrix:	SOLID	Collected by:		02/04/14	0:00
Location Code:	F&O-PCB	Received by:	sw	02/04/14	13:44
Rush Request:	72 Hour	Analyzed by:	see "By" below		

P.O.#: 20110979A2E

**Laboratory Data** 

SDG ID: GBG05726

Phoenix ID: BG05739

Project ID: DISCOVERY ACADEMY

Client ID: 020414KN-18

RL/ Parameter PQL Result Units Date/Time By Reference Percent Solid 98 % 02/04/14 KDB E160.3 PP/X Extraction for PCB Completed 02/04/14 SW3540C PCB (Soxhlet) PCB-1016 ND 0.71 02/05/14 AW 3540C/8082 mg/kg PCB-1221 ND 0.71 3540C/8082 mg/kg 02/05/14 AW ND PCB-1232 0.71 02/05/14 3540C/8082 mg/kg AW PCB-1242 ND 0.71 02/05/14 AW 3540C/8082 mg/kg PCB-1248 ND 0.71 02/05/14 AW 3540C/8082 mg/kg PCB-1254 ND 0.71 02/05/14 AW 3540C/8082 mg/kg PCB-1260 ND 0.71 mg/kg 02/05/14 AW 3540C/8082 PCB-1262 ND 0.71 02/05/14 AW 3540C/8082 mg/kg PCB-1268 ND 0.71 02/05/14 AW 3540C/8082 mg/kg **QA/QC Surrogates** 80 02/05/14 30 - 150 % % DCBP % AW % TCMX 74 % 02/05/14 AW 30 - 150 %

Page 27 of 30

Ver 1

Client ID: 020414KN-18

Phoenix I.D.: BG05739

RL/

Parameter Result PQL Units Date/Time By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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Phyllis/Shiller, Laboratory Director

February 07, 2014

Page 28 of 30 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Fax (860) 645-0823 Tel. (860) 645-1102

# **Analysis Report**

February 07, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample In	formation
-----------	-----------

Matrix:

SOLID

F&O-PCB

Location Code: Rush Request:

72 Hour

20110979A2E

**Custody Information** 

Collected by:

Received by:

**Laboratory Data** 

SW

see "By" below

Analyzed by:

Date 02/04/14 Time 0:00

13:44

02/04/14

SDG ID: GBG05726 Phoenix ID: BG05740

Project ID:

P.O.#:

DISCOVERY ACADEMY

Client ID:

020414KN-DUP

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	96		%	02/04/14	KDB	E160.3
Extraction for PCB	Completed			02/04/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.73	mg/kg	02/05/14	AW	3540C/8082
PCB-1221	ND	0.73	mg/kg	02/05/14	AW	3540C/8082
PCB-1232	ND	0.73	mg/kg	02/05/14	AW	3540C/8082
PCB-1242	ND	0.73	mg/kg	02/05/14	AW	3540C/8082
PCB-1248	ND	0.73	mg/kg	02/05/14	AW	3540C/8082
PCB-1254	ND	0.73	mg/kg	02/05/14	AW	3540C/8082
PCB-1260	ND	0.73	mg/kg	02/05/14	AW	3540C/8082
PCB-1262	ND	0.73	mg/kg	02/05/14	AW	3540C/8082
PCB-1268	ND	0.73	mg/kg	02/05/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	46		%	02/05/14	AW	30 - 150 %
% TCMX	49		%	02/05/14	AW	30 - 150 %

Client ID: 020414KN-DUP

Phoenix I.D.: BG05740

RL/

Parameter PQL Units Date/Time By Reference Result

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

February 07, 2014

Page 30 of 30 Ver 1



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D 30 Ocare, Book Trombed, C.f. 06611  D 1419 Richard Street, Colombia Sc. 24701  D 78 Intrason Deve, West Springfield, MA, 01085	1321	MARSELLA OF 2010919, AZE	Analysis Request
Disciplines to Deliner (301) chezho, - v-w-trado, con	CHAIN-OF-CUSTODY RECORD	DISCOVERY ACADEMY 174 CONTROPORTOR AVE WETHERSFIELD CT	NYONETO MATHERN PRINE NYONETO MARKED REDFIELD

Date: 2-4-14

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MW. Maximing Well

SW=Sucker Water Somplea's Signature:

X-Other

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Date Time Reporting and Derection Limit Rectifements 2   pp.N.	3/4/11/34 CASSION COMERNE NORTH STRIP WAS WINDOWS BY PREAT	OSPARIES 600"-O.5" NEWTH	(a) THE CAST VERTICAL	@ WEST VERTICAL
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FUSS & O'NEILL FNVIROSCIENCE, LLC Disciplines to Deliver Substances to the Comment of the Commen	70 Redicall Street, Knive 101, Manton, 145 (1212) 225 Francestale Street, Stiff 356, Zeoraeter, M. (1958) 281 Washington Street, Maire 301, Pangaisecenie, NY 1286
CHAIN-OF-CUSTODY RECORD	1322 Cotton Change Cotton days Secultary Applies
DISCOVERY HEABORY (710 COMBERLAND ANG, WETHERSFIELD (T) KEPORT TO HARD TO AND	Operations
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Trensfer Accopted by East	Truck Reporting and Desection Linit Requirements: CIPpm
: 215 Charadure shiply	1314 HALLESON COMMONS NORTH STRING OSAMPLE @ 0.0"-0.3



Thursday, January 23, 2014

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Project ID: DISCOVERY ACADEMY Sample ID#s: BF99666 - BF99682

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301 CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003 NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

January 23, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix: SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

**Custody Information** 

Collected by: Received by:

SW

01/15/14 01/16/14

<u>Date</u>

<u>Time</u> 0:00 12:02

Analyzed by:

see "By" below

aboratory Data

SDG ID: GBF99666

Phoenix ID: BF99666

Project ID:

DISCOVERY ACADEMY

Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	93		%	01/16/14	nade!	E160.3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	92		%	01/17/14	AW	30 - 150 %
% TCMX	80		%	01/17/14	AW	30 - 150 %

Client ID: 011514-SV-01

Phoenix I.D.: BF99666

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Page 2 of 34 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 23, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix: SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

**Custody Information** 

Collected by: Received by:

SW

01/15/14 01/16/14

Date

**Time** 0:00

12:02

Analyzed by:

see "By" below

Laboratory Data

SDG ID: GBF99666

Phoenix ID: BF99667

Project ID:

DISCOVERY ACADEMY

Client ID:

011514-SV-02

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	93		%	01/16/14	- F	E160.3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1221	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1242	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1262	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	93		%	01/17/14	AW	30 - 150 %
% TCMX	82		%	01/17/14	AW	30 - 150 %

Page 3 of 34 Ver 1

Client ID: 011514-SV-02

Phoenix I.D.: BF99667

RL

Parameter

Result

PQL

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Units



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

January 23, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

Matrix:

20110979A2E

Analyzed by: see "By" below

Laboratory Data

SW

**Custody Information** 

Collected by:

Received by:

SDG ID: GBF99666

Time

0:00

12:02

Ver 1

Phoenix ID: BF99668

Date

01/15/14

01/16/14

Project ID:

DISCOVERY ACADEMY

Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	95		%	01/16/14	-1-	E160.3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	ND -	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	91		%	01/17/14	AW	30 - 150 %
% TCMX	79		%	01/17/14	AW	30 - 150 %

Client ID: 011514-SV-03

Phoenix I.D.: BF99668

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 23, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample InformationCustody InformationDateMatrix:SOLIDCollected by:01/15/14

Location Code: F&O-PCB Received by: SW

Analyzed by: see "By" below

P.O.#: 20110979A2E

Rush Request:

**Laboratory Data** 

SDG ID: GBF99666

Time

0:00

12:02

Phoenix ID: BF99669

01/16/14

Project ID: DISCOVERY ACADEMY

72 Hour

Client ID: 011514-SV-04

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	93		%	01/16/14	- 1	E160.3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	01/17/14	AVV	3540C/8082
PCB-1262	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	93		%	01/17/14	AW	30 - 150 %
% TCMX	81		%	01/17/14	AW	30 - 150 %

Page 7 of 34 Ver 1

Client ID: 011514-SV-04

Phoenix I.D.: BF99669

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 23, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Phoenix ID: BF99670

 Sample Information
 Custody Information
 Date
 Time

 Matrix:
 SOLID
 Collected by:
 01/15/14
 0:00

 Location Code:
 F&O-PCB
 Received by:
 SW
 01/16/14
 12:02

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979A2E Laboratory Data SDG ID: GBF99666

Project ID: DISCOVERY ACADEMY

Client ID: 011514-SV-05

RL PQL Units Date/Time By Reference Parameter Result 94 % 01/16/14 E160.3 Percent Solid PP/X SW3540C 01/16/14 Extraction for PCB Completed PCB (Soxhlet) PCB-1016 ND 0.35 mg/kg 01/17/14 AW 3540C/8082 3540C/8082 PCB-1221 ND 0.35 mg/kg 01/17/14 AW 01/17/14 3540C/8082 ND 0.35 AW PCB-1232 mg/kg PCB-1242 ND 0.35 mg/kg 01/17/14 AW 3540C/8082 3540C/8082 PCB-1248 ND 0.35 mg/kg 01/17/14 AW 01/17/14 3540C/8082 ND 0.35 AW PCB-1254 mg/kg 0.35 01/17/14 AW 3540C/8082 PCB-1260 ND mg/kg 0.35 01/17/14 AW 3540C/8082 PCB-1262 ND mg/kg ND 01/17/14 AW 3540C/8082 0.35 PCB-1268 mg/kg QA/QC Surrogates 90 % 01/17/14 AW 30 - 150 % % DCBP 80 % 01/17/14 AW 30 - 150 % % TCMX

Page 9 of 34 Ver 1

Client ID: 011514-SV-05

Phoenix I.D.: BF99670

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **Analysis Report**

January 23, 2014

Attn: Ms Kathleen Pane FOR:

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Time

0:00

12:02

Sample Information Custody Information Date SOLID 01/15/14 Matrix: Collected by: 01/16/14

Location Code: F&O-PCB Received by: SW

> Analyzed by: see "By" below

P.O.#: 20110979A2E SDG ID: GBF99666 Laboratory Data Phoenix ID: BF99671

DISCOVERY ACADEMY Project ID:

72 Hour

011514-SV-06 Client ID:

Rush Request:

RL PQL Date/Time Ву Parameter Result Units Reference 01/16/14 93 % E160.3 Percent Solid Extraction for PCB Completed 01/16/14 PP/X SW3540C PCB (Soxhlet) 0.35 01/17/14 PCB-1016 ND AW 3540C/8082 mg/kg ND 0.35 01/17/14 3540C/8082 PCB-1221 mg/kg AW PCB-1232 ND 0.35 mg/kg 01/17/14 AW 3540C/8082 ND 0.35 mg/kg 01/17/14 AW 3540C/8082 PCB-1242 ND 0.35 01/17/14 3540C/8082 PCB-1248 mg/kg AW 3540C/8082 ND 0.35 01/17/14 PCB-1254 mg/kg AW PCB-1260 ND 0.35 mg/kg 01/17/14 AW 3540C/8082 PCB-1262 ND 0.35 mg/kg 01/17/14 AW 3540C/8082 01/17/14 3540C/8082 ND 0.35 PCB-1268 mg/kg AW QA/QC Surrogates % DCBP 82 % 01/17/14 AW 30 - 150 % 88 % 01/17/14 30 - 150 % % TCMX AW

Client ID: 011514-SV-06

Phoenix I.D.: BF99671

RL

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 23, 2014



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

January 23, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

SOLID Matrix:

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

**Custody Information** 

Collected by: Received by:

Analyzed by:

SW

see "By" below

Laboratory Data

SDG ID: GBF99666

Time

0:00

12:02

Phoenix ID: BF99672

Date

01/15/14

01/16/14

Project ID:

DISCOVERY ACADEMY

Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	01/16/14	11	E160.3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	79		%	01/17/14	AW	30 - 150 %
% TCMX	80		%	01/17/14	AW	30 - 150 %

Client ID: 011514-SV-07

Phoenix I.D.: BF99672

RL

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 23, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix:

SOLID

Location Code: Rush Request: F&O-PCB 72 Hour

P.O.#:

20110979A2E

Laboratory Data

Custody Information

Collected by:

Received by:

Analyzed by:

<u>Date</u> <u>Time</u> 0:00

01/16/14

12:02

see "By" below

SW

SDG ID: GBF99666

Phoenix ID: BF99673

Project ID:

DISCOVERY ACADEMY

Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	01/16/14	- 1	E160,3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	01/17/14	AVV	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/17/14	AVV	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	80		%	01/17/14	AW	30 - 150 %
% TCMX	83		%	01/17/14	AVV	30 - 150 %

Client ID: 011514-SV-08

Phoenix I.D.: BF99673

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

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if there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 23, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	<u>Date</u>	Time
Matrix:	SOLID	Collected by:		01/15/14	0:00
Location Code:	F&O-PCB	Received by:	sw	01/16/14	12:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		

Laboratory Data

SDG ID: GBF99666

Phoenix ID: BF99674

**DISCOVERY ACADEMY** Project ID:

20110979A2E

Client ID: 011514-SV-09

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	98		%	01/16/14	-1-	E160.3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	92		%	01/17/14	AW	30 - 150 %
% TCMX	78		%	01/17/14	AVV	30 - 150 %

Client ID: 011514-SV-09

Phoenix I.D.: BF99674

RL

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 23, 2014

FOR: Attn: Ms Kathleen Pane

SW

see "By" below

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix: SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

Laboratory Data

**Custody Information** 

Collected by:

Received by:

Analyzed by:

01/16/14 12:02

<u>Time</u>

0:00

<u>Date</u>

01/15/14

SDG ID: GBF99666

Phoenix ID: BF99675

Project ID:

DISCOVERY ACADEMY

Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	01/16/14	-1-	E160.3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	92		%	01/17/14	AW	30 - 150 %
% TCMX	87		%	01/17/14	AW	30 - 150 %

Client ID: 011514-SV-10

Phoenix I.D.: BF99675

Reference

RL

Parameter Result PQL Units Date/Time By

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

January 23, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	<u>nation</u>	<u>Date</u>	Time
Matrix:	SOLID	Collected by:		01/15/14	0:00
Location Code:	F&O-PCB	Received by:	SW	01/16/14	12:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		

72 Hour Analyzed by: see "By" below 20110979A2E

## aboratory Data

SDG ID: GBF99666 Phoenix ID: BF99676

Project ID: DISCOVERY ACADEMY

011514-SV-11 Client ID:

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	95		%	01/16/14		E160.3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	100		%	01/17/14	AW	30 - 150 %
% TCMX	92		%	01/17/14	AW	30 - 150 %

Client ID: 011514-SV-11

Phoenix I.D.: BF99676

RL

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 23, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

SOLID Matrix:

Location Code:

F&O-PCB 72 Hour

Rush Request:

P.O.#:

20110979A2E

Received by: SW Analyzed by: see "By" below

Custody Information

Collected by:

aboratory Data

SDG ID: GBF99666

<u>Time</u>

0:00

12:02

Phoenix ID: BF99677

<u>Date</u>

01/15/14

01/16/14

Project ID:

DISCOVERY ACADEMY

Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	94		%	01/16/14		E160,3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	101		%	01/17/14	AW	30 - 150 %
% TCMX	94		%	01/17/14	AW	30 - 150 %

Client ID: 011514-SV-12

Phoenix I.D.: BF99677

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200, This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

January 23, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample	Information
--------	-------------

Matrix: Location Code: SOLID F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

**Custody Information** Collected by:

Received by:

Analyzed by:

SW

see "By" below

## Laboratory Data

SDG ID: GBF99666

<u>Time</u>

0:00

12:02

Phoenix ID: BF99678

**Date** 

01/15/14

01/16/14

Project ID:

DISCOVERY ACADEMY

Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	95		%	01/16/14	- 1	E160.3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	96		%	01/17/14	AW	30 - 150 %
% TCMX	77		%	01/17/14	AW	30 - 150 %

Client ID: 011514-SV-13

Phoenix I.D.: BF99678

RL/

Parameter Result PQL Units Date/Time By Reference

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

January 23, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

Matrix: SOLID

F&O-PCB

Location Code:

72 Hour

Rush Request:

Custody Information Collected by:

Received by:

Analyzed by:

SW

see "By" below

01/15/14 0:00 12:02

<u>Time</u>

01/16/14

Date

P.O.#:

20110979A2E

aboratory Data

SDG ID: GBF99666

Phoenix ID: BF99679

Project ID:

DISCOVERY ACADEMY

Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	94		%	01/16/14	1	E160.3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	75		%	01/17/14	AVV	30 - 150 %
% TCMX	78		%	01/17/14	AW	30 - 150 %

Client ID: 011514-SV-14

Phoenix I.D.: BF99679

RL/

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 23, 2014

FOR: Attn: M

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix: SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

20110979A2E

Custody Information
Collected by:

Received by:

Analyzed by:

sw

see "By" below

SDG ID: GBF99666

<u>Time</u>

0:00

12:02

AW 30 - 150 %

aboratory Data

Phoenix ID: BF99680

Date

01/15/14

01/16/14

01/17/14

Project ID:

DISCOVERY ACADEMY

88

Client ID:

% TCMX

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	92		%	01/16/14	- 1	E160.3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						
% DCBP	78		%	01/17/14	AW	30 - 150 %
						SET SEELEN

Client ID: 011514-SV-15

Phoenix I.D.: BF99680

By

Reference

RL/

Parameter Result PQL Units Date/Time

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 23, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

 Sample Information
 Custody Information
 Date
 Time

 Matrix:
 SOLID
 Collected by:
 01/15/14
 0:00

 Location Code:
 F&O-PCB
 Received by:
 SW
 01/16/14
 12:02

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979A2E Laboratory Data

Laboratory Data SDG ID: GBF99666

Phoenix ID: BF99681

Project ID: DISCOVERY ACADEMY

Client ID: 011514-SV-16

RL PQL Parameter Result Units Date/Time By Reference 01/16/14 90 E160.3 Percent Solid % 1 Extraction for PCB Completed 01/20/14 X/X SW3540C PCB (Soxhlet) 0.36 01/21/14 3540C/8082 PCB-1016 ND AW mg/kg ND 01/21/14 3540C/8082 PCB-1221 0.36 mg/kg AW PCB-1232 ND 0.36 mg/kg 01/21/14 AW 3540C/8082 ND 0.36 01/21/14 AW 3540C/8082 PCB-1242 mg/kg ND 0.36 01/21/14 3540C/8082 PCB-1248 mg/kg AW 01/21/14 3540C/8082 ND 0.36 PCB-1254 mg/kg AW PCB-1260 ND 0.36 mg/kg 01/21/14 AW 3540C/8082 01/21/14 PCB-1262 ND 0.36 mg/kg AW 3540C/8082 3540C/8082 ND 0.36 01/21/14 PCB-1268 mg/kg AW QA/QC Surrogates % DCBP 92 % 01/21/14 AW 30 - 150 % 01/21/14 90 30 - 150 % % TCMX % AW

Page 31 of 34 Ver 1

Client ID: 011514-SV-16

Phoenix I.D.: BF99681

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 23, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		<b>Custody Information</b>	<u>Date</u>	Time	
Matrix:	SOLID	Collected by:	01/15/14	0:00	
Location Code:	F&O-PCB	Received by: SW	01/16/14	12:02	

Rush Request: 72 Hour Analyzed by: see "By" below

Laboratory Data SDG ID: GBF99666 Phoenix ID: BF99682

Project ID: DISCOVERY ACADEMY

20110979A2E

011514-SV-DUP Client ID:

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	91		%	01/16/14	1	E160.3
Extraction for PCB	Completed			01/16/14	PP/X	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1221	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1232	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1242	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1248	NO	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1254	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1260	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1262	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
PCB-1268	ND	0.36	mg/kg	01/17/14	AW	3540C/8082
QA/QC Surrogates						4.44
% DCBP	97		%	01/17/14	AW	30 - 150 %
% TCMX	78		%	01/17/14	AW	30 - 150 %

Project ID: DISCOVERY ACADEMY Client ID: 011514-SV-DUP

Phoenix I.D.: BF99682

RL/

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2014

Reviewed and Released by: Ethan Lee, Project Manager

Page 34 of 34 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

January 23, 2014

### **QA/QC Data**

SDG I.D.: GBF99666

Parameter	Blank	LCS %	LCSD %	RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 264720, QC Sa BF99674, BF99675, BF99676	6, BF99677, BF99678, BF996				1 1 1 1 1 1 1 1 1	670, BF	99671,	BF99672	BF99673
Polychlorinated Bipheny	ris - Solid								
PCB-1016	ND	73	77	5.3	80	77	3.8	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	74	80	7.8	117	120	2.5	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	91	91	95	4.3	101	89	12.6	30 - 150	30
% TCMX (Surrogate Rec)	86	89	91	2.2	94	85	10.1	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

January 23, 2014

Analysis Units

# Sample Criteria Exceedences Report

GBF99666 - FO-PCB

RL Criteria Criteria RL Result Criteria Phoenix Analyte Acode

\*\*\* No Data to Display \*\*\*

Thursday, January 23, 2014

Criteria: None State: CT SampNo Acoc Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

# Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory	Name:	Phoe	nix Enviror	mental Lab	s, Inc. CI	ient:	Fus	s & O'Neill	, Inc.	
Project Loc	ation:	DISC	OVERY A	CADEMY	Pr	oject I	Number:			
Laboratory	Sample	ID(s)	BF9966 BF9968	4, BF99675,	BF99668, BF99676,	BF996 BF996	669, BF99670, 677, BF99678,	BF99671, E BF99679, E	3F99672, 3F99680,	BF99673, BF99681,
Sampling D	ate(s):	1/15/	2014							
RCP Metho	ds Used	1:								
1311/1312	□ 60	10	<b>7000</b>	<b>7196</b>	7470	7471	□ 8081	☐ EPH		TO15
₹ 8082	□ 81:	51	8260	8270	☐ ETPH	ı	9010/9012	☐ VPH		
specific any cri	ed QA/QC eria fallin	perfo g outsi	rmance crite de of accep		including the es, as spec	e requir ified in	kage, were all ement to explain the CT DEP	✓ Yes	□No	
1a. Were t	ne metho	d spec	ified presen	vation and hol	ding time re	quirem	ents met?	✓ Yes	□ No	
1b. EPH ar signific	nd VPH m ant modif	ethod: ication	s only: Was s (see secti	the VPH or E on 11.3 of res	PH method pective RC	condu meth	cted without ods)	☐ Yes	□No	<b>☑</b> NA
				aboratory in a -of-Custody o			ent with that	☑ Yes	□No	
3. Were s	amples re	eceive	d at an appr	opriate tempe	erature (< 6	Degree	s C)?	✓ Yes	□No	□NA
4. Were a	II QA/QC of docume	perfor ents ac	mance crite hieved?	ria specified i	n the Reaso	nable (	Confidence	✓ Yes	□ No	
5a. Were r	eporting l	imits s	pecified or r	eferenced on	the chain-o	f-custo	dy?	✓ Yes	□No	
5b. Were t	nese repo	orting li	mits met?	THE R	H.L.I.			✓ Yes	□ No	□NA
results	reported	for all	constituents	iced in this lat identified in t idence Protoc	he method-	specific		☑ Yes	□ No	□NA
7. Are pro	ject-spec	ific ma	tríx spikes a	and laboratory	duplicates	include	d in the data set	? ✓ Yes	□No	□NA
be pro	ided in a	n attacl		. If the answe			of question #5a, A or 1B is "No", ti			
and belief	and bas	ed up	on my per	rsonal inqui	ry of thos	e resp	rjury that, to t onsible for pr ate and compl	oviding the		
A. ALALASS		. لدار		4.5			Date: Thur	sday, Janu	ary 23, 2	014
Authorized Signature:		Ed	tran	See		Printe	ed Name: Etha	n Lee		
***		10/1/					Position: Proje	ct Manage	r	



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **RCP Certification Report**

January 23, 2014

SDG I.D.: GBF99666

### **PCB Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

Au-ecd1 01/17/14-1 (BF99673, BF99675, BF99676, BF99677)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** 

Adam Werner

Position:

Chemist

Date:

1/17/2014

Instrument:

Au-ecd24 01/17/14-1 (BF99674, BF99682)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** 

Adam Werner

Position: Date: Chemist

------

1/17/2014

Instrument:

Au-ecd24 01/21/14-1 (BF99681)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** 

Adam Werner

Position: Date: Chemist 1/21/2014

Instrument:

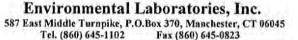
Au-ecd3 01/17/14-1 (BF99671, BF99672, BF99673)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none







# **RCP Certification Report**

January 23, 2014

SDG I.D.: GBF99666

**Printed Name** 

Adam Werner

Position:

Chemist

Date:

1/17/2014

Instrument:

Au-ecd5 01/17/14-1 (BF99666, BF99667, BF99668, BF99669)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** 

Adam Werner Chemist

Position: Date:

1/17/2014

Instrument:

Au-ecd6 01/17/14-1 (BF99670, BF99678, BF99681)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds; none

**Printed Name** 

Adam Werner

Position:

Chemist

Date:

1/17/2014

Instrument:

Au-ecd7 01/17/14-1 (BF99679, BF99680)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds; none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

**Printed Name** 

Adam Werner

Position:

Chemist

Date:

1/17/2014



### Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **RCP Certification Report**

January 23, 2014

SDG 1.D.: GBF99666

### QC (Site Specific)

----- Sample No: BF99673, QA/QC Batch: 264720 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

### **Temperature Narration**

The samples in this delivery group were received at 4°C. (Note acceptance criteria is above freezing up to 6°C)



# FUSS & O'NEILL ENVIROSCIENCE, LLC

(860) 646-2469 • www.FandO.com

146 Hartford Road, Manthester, CT 06040
56 Quary Road, Trumbull, CT 06611
1419 Richland Street, Columbia, SC 29201
78 Interstate Drive, West Springfield, MA 01089

50 Redfield Street, Suite 100, Boston, MA 02122
 275 Promenade Street, Suite 350, Providence, RI 02908
 B0 Washington Street, Suite 301, Poughkeepsie, NY 12601

(days)

Other (day

days)

O 1 Day\* (3 Days\* O 2 Days\* O Scandard

1314

CHAIN-OF-CUSTODY RECORD

REPORT TO:	EPORT TO: KATHLEEN PANE Analysis	ME				Analysis	1	1///////	11/1/	Cont	Containers
INVOICE TO:	INVOICE TO: KARRON RESERVED. NO. 2011 PO. NO. 2011 POR ADE	DEAD				Request	1				In
Sampler's Signatures	ignature Handenver	Z Z	Ď	Date: /-/	1-15-14		PAR .		WOSTAN.	\$ (Sept.)	1000
Source Codes: MW=Monitoring Well SW=Surface Water X=Other BRN	bs: pring Well PW=Poutble Water Water T=Treatment Facility BRICK	S=Soil B=Sediment	W=Wzste A=Air			¥	\$6°\200		PARA DUE	2000	57   1005
No. 1	Transfer Check Sample Number	lumber	Source	Date Sampled	Time	Eds		100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100	S.H	Sold And Sold And And And And And And And And And An
\ _	011514-51-01	10-	XX	1-15-14		/	99666				0
7		-03		-		-	99667				0
3 /		-03				-	89966	-			9
\ †		h0-				-	69966				6
15		-05				_	99670	-			0
10		20-				/	11966				Q
1/		60-				1	99672				O
\ \$		-08				-	99613				0(-)
7		50-		**		>	h 1966	-			3
10/		01-	>	>		-	99675				(a)
Transfer	Relinquished By	7	Accepted By		Date	Time	Reporting and Detection Limit Requirements:	Limit Requiremen	mg//>		
-)	Manderver	Set	t Work		1-12-14	14/		EASTW	EAST WALL WINDOWS	NAM - SU	>
2	Scott Mess		X.	1	7011	7	Symbrese	7.506	SEPTH		
3			D		-	-	N PLOSOF	VORTICAL			
							1 120018 (2)				



7 146 Hartford Road, Manchester, CT 06040
56 Quarry Road, Trumbull, CT 06611
11419 Richland Street, Columbia, SC 29201:
78 Interstate Drive, West Springfield, MA 01089

50 Redfield Sueet, Suite 100, Boston, MA 02122
 275 Promenade Suret, Suite 350, Providence, RI 02908
 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

750

(days) PHOGNIY \*Surcharge Applies LABORATORY Containers D Other days) 0 1 Day\* 3 Days\* 20110979. PROJECT NUMBER ITIC COMBERGAND ANE WETHERSFIELD 1315 Analysis CHAIN-OF-CUSTODY RECORD PROJECT LOCATION KATHLEEN PANE DISCOVERY ACADEMY PROJECT NAME REPORT TO:

Request Date: / W=Waste A=Air INVOICE TO: KARRON REDFIELD S=Soil B=Sediment Sampler's Signature: Standente 301108 AS PW=Potable Water T=Treatment Facility X=Ouher BRICK Source Codes:
MW=Monitoring Well
SW=Surface Water

P.O. No.:

The ose I Sosia

Time

Source

Sample Number

Transfer Check

No.

Comments Additional Comments EAST WALL WINDOWS - MAIN 0 <u>@</u>@ 0 000 SOARY - MARIE ~1ppm Reporting and Detection Limit Requirements: C89 66 996 Time 1-16-14 Date 1-15-14 Date Sampled Accepted By Soft 3 211-7 니 13 011514-81-11 Relinquished By 67 0 4 Transfer 9 3 耳ら 3 E

DUBAMPLES @ 0"-05" A GPTH

1-16-14

2 60 4

D NORTH VERTICAL



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

December 10, 2013

FOR:

Attn: Ms. Karron Redfield Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

Matrix: SOLID

F&O-PCB

Location Code: Rush Request:

72 Hour

P.O.#:

20110979.A2E

<u>Custody Information</u>

Collected by: Received by:

Analyzed by:

LB

12/06/13 12/06/13

Date

0:00 15:32

Time

see "By" below

Laboratory Data

SDG ID: GBF85639

Phoenix ID: BF85639

Project ID:

DISCOVERY ACADEMY

Client ID:

120613-KN-20A

RL/ Parameter PQL Result Units Date/Time By Reference Percent Solid 94 % 12/06/13 E160.3 Extraction for PCB Completed 12/06/13 BB/K SW3540C PCB (Soxhlet) PCB-1016 ND 0.43 mg/kg 12/09/13 AW 3540C/8082 PCB-1221 ND 0.43 12/09/13 3540C/8082 mg/kg AW PCB-1232 ND 0.43 3540C/8082 mg/kg 12/09/13 AW PCB-1242 ND 0.43 mg/kg 12/09/13 3540C/8082 AW PCB-1248 ND 0.43 mg/kg 12/09/13 AW 3540C/8082 PCB-1254 ND 0.43 mg/kg 12/09/13 AW 3540C/8082 PCB-1260 0.43 ND mg/kg 12/09/13 AW 3540C/8082 PCB-1262 ND 0.43 3540C/8082 mg/kg 12/09/13 AW PCB-1268 ND 0.43 mg/kg 12/09/13 AW 3540C/8082 QA/QC Surrogates % % DCBP 105 12/09/13 AW 30 - 150 % % TCMX 90 12/09/13 AW 30 - 150 %

Page 1 of 6 Ver 1

Project ID: DISCOVERY ACADEMY

Client ID: 120613-KN-20A

Phoenix I.D.: BF85639

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 10, 2013



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 10, 2013

FOR:

Attn: Ms. Karron Redfield Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

SOLID

F&O-PCB

Location Code: Rush Request:

72 Hour

P.O.#:

Matrix:

20110979.A2E

**Laboratory Data** 

LB

see "By" below

**Custody Information** 

Collected by:

Received by:

Analyzed by:

SDG ID: GBF85639

Time

0:00

15:32

Phoenix ID: BF85640

Date

12/06/13

12/06/13

Project ID:

DISCOVERY ACADEMY

Client ID:

120613-KN-23A

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	97		%	12/06/13		E160.3
Extraction for PCB	Completed			12/06/13	BB/K	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	12/09/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/09/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/09/13	AW	3540C/8082
PCB-1242	ND	0,34	mg/kg	12/09/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	12/09/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	12/09/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/09/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/09/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/09/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	106		%	12/09/13	AW	30 - 150 %
% TCMX	90		%	12/09/13	AW	30 - 150 %

Project ID: DISCOVERY ACADEMY

Client ID: 120613-KN-23A

Phoenix I.D.: BF85640

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 10, 2013



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 10, 2013

FOR:

Attn: Ms. Karron Redfield Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

SOLID

Location Code:

F&O-PCB

Rush Request:

72 Hour

P.O.#:

Matrix:

20110979.A2E

**Custody Information** 

Received by:

Collected by:

LB

12/06/13

12/06/13

Date

0:00 15:32

Time

Analyzed by:

see "By" below

Laboratory Data

SDG ID: GBF85639

Phoenix ID: BF85641

Project ID:

DISCOVERY ACADEMY

Client ID:

120613-KN-24A

Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	95		%	12/06/13	1	E160.3
Extraction for PCB	Completed			12/06/13	BB/K	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1221	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1232	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1242	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1248	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1254	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1260	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1262	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1268	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	107		%	12/09/13	AW	30 - 150 %
% TCMX	93		%	12/09/13	AW	30 - 150 %

Project ID: DISCOVERY ACADEMY

Client ID: 120613-KN-24A

Phoenix I.D.: BF85641

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

( /h//. ) 1-10.

Phyllis Shiller, Laboratory Director December 10, 2013



 J. S. Hummali, Maca. State 230, Programme, III 02928
 J. W. Zadnington, State, National Programmeries, No. 12801 Ten Oiks Apples Phierix LABORATIONY 3 30 Reached Smeet, Saite 13d, Bucker, NA 02122 D'Sendand 11.Dec | 146 Discipled Board Mancheser; CT 96540 | 56 Quary Rook Tembell, CF 19611 | 1419 Richans Street, Connubra 50, 29201, | 31 Interests Dines, West Springfield, MA 61089 PROJECT NEMBER 1219 CHAIN-OF-CUSTODY RECORD Project Decembs FUSS & O'NEILL ENVIROSCIENCE, LLC PROJECT NAME

Wethersfield, CT

Auc

Discovery Reademy 176 Combelland

REPORT TO

Analysis

cellainers

85,640 Sold. Steel St Report 12 and Desertion Circuit Recuirements Request Tient Date: 12-06-13 120613 Date Sau\_dad 120613 (1902) 第二級シャル カー社 Karoon Red Field 120613 -KW-23A 2011 09 79 . AZE 120613-KN-20A 120613- KM - 24A DESIGNATION Kathlien Pane Sample Namiber P.C. Posible Water Thirtainen Pattin R. incuished By Sampler's Signature: REDUCK Brick NW Montholist, Well SW-Surface Water Torsky Cleak 17 N INVOICE TO Source Codes: P.O. NO. 2 2 NM

Kishymal Countrie Bur west wall Retest 20,23,24

Straight 1



Wednesday, December 11, 2013

Attn: Ms. Karron Redfield Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Project ID: DISCOVERY ACADEMY Sample ID#s: BF85639 - BF85641

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #MA-CT-007 ME Lab Registration #CT-007 NH Lab Registration #213693-A,B NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 VT Lab Registration #VT11301



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 11, 2013

Attn: Ms. Karron Redfield FOR:

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Information	<u>Date</u>	Time
Matrix:	SOLID	Collected by:	12/06/13	0:00
Location Code:	F&O-PCB	Received by: LB	12/06/13	15:32

Received by: Location Code: F&O-PCB

> Analyzed by: see "By" below

P.O.#: 20110979.A2E aboratory Data

SDG ID: GBF85639

Phoenix ID: BF85639

Project ID: DISCOVERY ACADEMY

72 Hour

Client ID: 120613-KN-20A

Rush Request:

RL Parameter Result PQL Units Date/Time By Reference 94 % Percent Solid 12/06/13 E160.3 Extraction for PCB Completed 12/06/13 BB/K SW3540C PCB (Soxhlet) PCB-1016 ND 0.43 mg/kg 12/09/13 AW 3540C/8082 PCB-1221 ND 0.43 12/09/13 AW 3540C/8082 mg/kg PCB-1232 ND 0.43 12/09/13 AW 3540C/8082 mg/kg PCB-1242 ND 0.43 12/09/13 3540C/8082 mg/kg AW PCB-1248 ND 0.43 12/09/13 3540C/8082 mg/kg AW PCB-1254 ND 0.43 12/09/13 AW 3540C/8082 mg/kg ND 0.43 PCB-1260 mg/kg 12/09/13 AW 3540C/8082 PCB-1262 ND 0.43 12/09/13 AW 3540C/8082 mg/kg PCB-1268 ND 0.43 mg/kg 12/09/13 3540C/8082 **QA/QC Surrogates** % DCBP 105 % 12/09/13 AW 30 - 150 % 90 % 12/09/13 % TCMX 30 - 150 %

> Page 1 of 6 Ver 1

Project ID: DISCOVERY ACADEMY

Client ID: 120613-KN-20A

RL

Parameter Result PQL Units Date/Time By Reference

Phoenix I.D.: BF85639

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 11, 2013

Reviewed and Released by: Ethan Lee, Project Manager

Page 2 of 6 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

December 11, 2013

FOR: Attn:

Attn: Ms. Karron Redfield Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

SOLID

<u>Date</u> 12/06/13

12/06/13

12/09/13

<u>Time</u>

Matrix: Location Code:

F&O-PCB

----

0:00 15:32

Rush Request:

72 Hour

Analyzed by:

**Custody Information** 

Collected by: Received by:

see "By" below

LB

1000

P.O.#:

20110979.A2E

**Laboratory Data** 

SDG ID: GBF85639

Phoenix ID: BF85640

Project ID:

DISCOVERY ACADEMY

90

Client ID:

% TCMX

120613-KN-23A

RL Parameter Result PQL Units Date/Time Reference By 97 E160.3 Percent Solid % 12/06/13 Extraction for PCB Completed 12/06/13 **BB/K SW3540C** PCB (Soxhlet) PCB-1016 ND 0.34 mg/kg 12/09/13 AW 3540C/8082 ND 0.34 12/09/13 AW 3540C/8082 PCB-1221 mg/kg PCB-1232 ND 0.34 12/09/13 3540C/8082 mg/kg AW ND 0.34 12/09/13 3540C/8082 PCB-1242 mg/kg AW ND 0.34 12/09/13 3540C/8082 PCB-1248 mg/kg AW PCB-1254 ND 0.34 12/09/13 AW 3540C/8082 mg/kg ND 0.34 3540C/8082 PCB-1260 mg/kg 12/09/13 AW PCB-1262 ND 0.34 12/09/13 AW 3540C/8082 mg/kg PCB-1268 ND 0.34 mg/kg 12/09/13 3540C/8082 **QA/QC Surrogates** 106 % 12/09/13 AW 30 - 150 % % DCBP

%

30 - 150 %

Project ID: DISCOVERY ACADEMY

Client ID: 120613-KN-23A

Phoenix I.D.: BF85640

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 11, 2013

Reviewed and Released by: Ethan Lee, Project Manager

Page 4 of 6 Ver 1



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 11, 2013

FOR: Attn: Ms. Karron Redfield

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	<u>ation</u>	Custody Inform	nation	Date	<u>Time</u>
Matrix:	SOLID	Collected by:		12/06/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/06/13	15:32
Rush Request:	72 Hour	Analyzed by:	see "By" below		

Laboratory Data

SDG ID: GBF85639

Phoenix ID: BF85641

Project ID: DISCOVERY ACADEMY

Client ID: 120613-KN-24A

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	95		%	12/06/13	. 1	E160.3
Extraction for PCB	Completed			12/06/13	BB/K	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1221	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1232	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1242	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1248	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1254	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1260	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1262	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
PCB-1268	ND	0.43	mg/kg	12/09/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	107		%	12/09/13	AW	30 - 150 %
% TCMX	93		%	12/09/13	AW	30 - 150 %

Project ID: DISCOVERY ACADEMY

Client ID: 120613-KN-24A

RL

Parameter Result PQL Units Date/Time By Reference

Phoenix I.D.: BF85641

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 11, 2013

Reviewed and Released by: Ethan Lee, Project Manager

Page 6 of 6 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

December 11, 2013

### QA/QC Data

SDG I.D.: GBF85639

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 261659, QC Sa	mple No: BF85594 (BF8563	9, BF85640, BF8	5641)						
Polychlorinated Bipheny	ls - Solid								
PCB-1016	ND	93	92	1.1	86	89	3.4	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	95	97	2.1	98	95	3.1	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	68	99	98	1.0	92	89	3.3	30 - 150	30
% TCMX (Surrogate Rec)	65	96	96	0.0	94	92	2.2	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

December 11, 2013

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Sample Criteria Exceedences Report

GBF85639 - FO-PCB

Criteria

Result

R

Criteria

Analysis Units

RL Criteria

State: CT \*\*\* No Data to Display \*\*\* Acode SampNo

Wednesday, December 11, 2013 Requested Criteria: None Phoenix Analyte

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

ENVIROSCIENCE, L		
FUSS & O'NEILL E	Disciplines to Deliver	(860) 646-2469 • www.FandO.com

FUSS & O'NEILL ENVIROSCIENCE, ILC Disciplines to Deliver (860), 646-2469 • www.FandO.com	146 Harttord Road, Manchester, C1 00040  56 Quarry Road, Trumbull, CT 06611  11419 Richland Street, Columbia, SC 22201  78 Interstate Diive, West Springfield, MA 01089	20 Kedneid Street, Suite 100, Boston, MA 02122     275 Promenade Street, Suite 350, Providence, RI 02908     80 Washington Street, Suite 301, Poughkeepsic, NY 12601
CHAIN-OF-CUSTODY RECORD 1219		O 1 Day* A 5 Days* O Other (days) 2 Days O Standard (days) *Surcharge Applies
ROJECT NAME PROJECT LOCATION PROJECT NUMBER AZE LABORATORY	Project Number	979. AEZ 8V Phoenix

Discovery Aco	demy 176 Comb	recient	3	W	Ave Wethersfield, CT	7 20110979. 4E28V	1. AEZ8V	Phoenix
REPORT TO:	Kathleen Pane				Analysis		11/1	Containers
INVOICE TO:	Karoon Redfield	P			Request	1////		8//////
P.O. No.:	2011 0979, AZE					11/1/1	1	100/00/
Sampler's Signature:	11/2/11		Date: 12-06-13	06-13	0.5		03087	WIT.
Source Codes:  NW=Monitoring Well SW=Surface Water X=Other Brick	W-Porable Water S=Soil  -Treatment Facility B=Sediment	W=Waste A=Alr			1280B		20/K) 2011	100
Item Transfer Check	* Sample Number 4	Source	Date Sampled	Time	No.	SA VOA 1105	25 10 VOA 2010	10 8/1 - 20
	120613-KN-20A	×	120613		1			B
2	120613 -KN-23A	×	120613		>			Thousand
3	120613- KM-24A	×	120613	3	5			(Y) 855041
		1						
Transfer Number	Relinquished By	Accepted By	4	Date	The	Reporting and Detection Limit Requirements:		
history 1	inght = mo	7	J	2	85.5亿	donal Componers Bor west wull	wull Rete	Retest 20,23,24
4		1	7	-	5			



Friday, January 03, 2014

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Sample ID#s: BF93052 - BF93065, BF93067 - BF93091

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Laboratory Director

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530

RI Lab Registration #63

VT Lab Registration #VT11301



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 03, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ition	Custody Inform	nation	Date	Time	
Matrix:	SOLID	Collected by:	Virginia.	12/27/13	196 Punto	
Location Code:	F&O-PCB	Received by:	sw	12/27/13	0:00 12:33	
Rush Request:	72 Hour	Analyzed by:	see "By" below	12/2/113	12,33	

P.O.#: 20110979AZE

aboratory Data

SDG ID: GBF93052

Phoenix ID: BF93052

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

122713-KN-01 Client ID:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/27/13		E160.3
Extraction for PCB	Completed			12/28/13	11	SW3540C
PCB (Soxhlet)						Children
PCB-1016	ND	0.39	mg/kg	12/31/13	KCA	3540C/8082
PCB-1221	ND	0.39	mg/kg	12/31/13	KCA	3540C/8082
PCB-1232	ND	0.39	mg/kg	12/31/13	KCA	3540C/8082
PCB-1242	ND	0.39	mg/kg	12/31/13	KCA	3540C/8082
CB-1248	ND	0.39	mg/kg	12/31/13	KCA	3540C/8082
CB-1254	ND	0.39	mg/kg	12/31/13	KCA	
CB-1260	ND	0.39	mg/kg	12/31/13	KCA	3540C/8082
CB-1262	ND	0.39	mg/kg	12/31/13	KCA	3540C/8082 3540C/8082
CB-1268	ND	0.39	mg/kg	12/31/13	- 2077	
QA/QC Surrogates			ma ma	12/31/13	KCA	3540C/8082
6 DCBP	107		%	12/31/13	KCA	20 450 0
6 TCMX	100		%	12/31/13	KCA	30 - 150 % 30 - 150 %

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-01

Phoenix I.D.: BF93052

Parameter

Result

RL/ PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

January 03, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information **Custody Information** Date Time Matrix: SOLID Collected by: 12/27/13 0:00 Location Code: F&O-PCB Received by: SW 12/27/13 12:33 Rush Request: 72 Hour Analyzed by: see "By" below

aboratory Data

P.O.#:

20110979AZE

SDG ID: GBF93052

Phoenix ID: BF93053

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-02

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/27/13	1	E160.3
Extraction for PCB	Completed			12/28/13	TT	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.44	mg/kg	12/31/13	KCA	3540C/8082
PCB-1221	ND	0.44	mg/kg	12/31/13	KCA	3540C/8082
PCB-1232	ND	0.44	mg/kg	12/31/13	KCA	3540C/8082
PCB-1242	ND	0.44	mg/kg	12/31/13	KCA	3540C/8082
PCB-1248	ND	0.44	mg/kg	12/31/13	KCA	3540C/8082
PCB-1254	ND	0.44	mg/kg	12/31/13	KCA	3540C/8082
PCB-1260	ND	0.44	mg/kg	12/31/13	KCA	3540C/8082
PCB-1262	ND	0.44	mg/kg	12/31/13	KCA	3540C/8082
PCB-1268	ND	0.44	mg/kg	12/31/13	KCA	3540C/8082
QA/QC Surrogates			0.00		1000	75.47.51.51
% DCBP	105		%	12/31/13	KCA	30 - 150 %
% TCMX	100		%	12/31/13	KCA	30 - 150 %
						A STATE OF STATE OF

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-02

Phoenix I.D.: BF93053

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

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Phyllis Shiller, Laboratory Director

January 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information **Custody Information Time** Date Matrix: SOLID Collected by: 12/27/13 0:00 Location Code: F&O-PCB Received by: SW 12/27/13 12:33 Analyzed by: see "By" below

Rush Request: 72 Hour

P.O.#:

20110979AZE

aboratory Data

SDG ID: GBF93052

Phoenix ID: BF93054

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-03

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/27/13	-1.	E160.3
Extraction for PCB	Completed			12/28/13	TT	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.45	mg/kg	12/31/13	KCA	3540C/8082
PCB-1221	ND	0.45	mg/kg	12/31/13	KCA	3540C/8082
PCB-1232	ND	0.45	mg/kg	12/31/13	KCA	3540C/8082
PCB-1242	ND	0.45	mg/kg	12/31/13	KCA	3540C/8082
PCB-1248	ND	0.45	mg/kg	12/31/13	KCA	3540C/8082
PCB-1254	ND	0.45	mg/kg	12/31/13	KCA	3540C/8082
PCB-1260	ND	0.45	mg/kg	12/31/13	KCA	3540C/8082
PCB-1262	ND	0.45	mg/kg	12/31/13	KCA	3540C/8082
PCB-1268	ND	0.45	mg/kg	12/31/13	KCA	3540C/8082
QA/QC Surrogates						
% DCBP	102		%	12/31/13	KCA	30 - 150 %
% TCMX	98		%	12/31/13	KCA	30 - 150 %

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-03

Phoenix I.D.: BF93054

RL/

Parameter Result PQL Units Date

Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

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Phyllis Shiller, Laboratory Director

January 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager



587 East Middle Turnplke, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

 Sample Information
 Custody Information
 Date
 Time

 Matrix:
 SOLID
 Collected by:
 12/27/13
 0:00

 Location Code:
 F&O-PCB
 Received by:
 SW
 12/27/13
 12:33

Rush Request: 72 Hour Analyzed by: see "By" below

<u>Laboratory Data</u>

20110979AZE

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-04

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/27/13	- 1	E160.3
Extraction for PCB	Completed			12/28/13	TT	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.47	mg/kg	12/31/13	KCA	3540C/8082
PCB-1221	ND	0.47	mg/kg	12/31/13	KCA	3540C/8082
PCB-1232	ND	0.47	mg/kg	12/31/13	KCA	3540C/8082
PCB-1242	ND	0.47	mg/kg	12/31/13	KCA	3540C/8082
PCB-1248	ND	0.47	mg/kg	12/31/13	KCA	3540C/8082
PCB-1254	ND	0.47	mg/kg	12/31/13	KCA	3540C/8082
PCB-1260	ND	0.47	mg/kg	12/31/13	KCA	3540C/8082
PCB-1262	ND	0.47	mg/kg	12/31/13	KCA	3540C/8082
PCB-1268	ND	0.47	mg/kg	12/31/13	KCA	3540C/8082
QA/QC Surrogates						
% DCBP	104		%	12/31/13	KCA	30 - 150 %
% TCMX	100		%	12/31/13	KCA	30 - 150 %

SDG ID: GBF93052 Phoenix ID: BF93055

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-04

Phoenix I.D.: BF93055

RL/

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 03, 2014

Reviewed and Released by: Ethan Lee, Project Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2014

FOR:

Custody Information

SW

see "By" below

Collected by:

Received by:

Analyzed by:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

Matrix: SOLID

F&O-PCB

Rush Request:

P.O.#:

Location Code:

72 Hour

20110979AZE aboratory Data

SDG ID: GBF93052

**Time** 

0:00

12:33

Phoenix ID: BF93056

Date

12/27/13

12/27/13

Project ID:

DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID:

122713-KN-05

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/27/13		E160.3
Extraction for PCB	Completed			12/28/13	11	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.93	mg/kg	12/31/13	KCA	3540C/8082
PCB-1221	ND	0.93	mg/kg	12/31/13	KCA	3540C/8082
PCB-1232	ND	0.93	mg/kg	12/31/13	KCA	3540C/8082
PCB-1242	ND	0.93	mg/kg	12/31/13	KCA	3540C/8082
PCB-1248	ND	0.93	mg/kg	12/31/13	KCA	3540C/8082
PCB-1254	ND	0.93	mg/kg	12/31/13	KCA	3540C/8082
PCB-1260	ND	0.93	mg/kg	12/31/13	KCA	3540C/8082
PCB-1262	ND	0.93	mg/kg	12/31/13	KCA	3540C/8082
PCB-1268	ND	0.93	mg/kg	12/31/13	KCA	3540C/8082
QA/QC Surrogates						
% DCBP	106		%	12/31/13	KCA	30 - 150 %
% TCMX	100		%	12/31/13	KCA	30 - 150 %

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-05

Phoenix I.D.: BF93056

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

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Phyllis Shiller, Laboratory Director

January 03, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2014

FOR:

Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

Matrix:

SOLID

Custody Information
Collected by:

<u>Date</u> 12/27/13 0:00

Location Code:

F&O-PCB

Received by:

sw

12/27/13

12:33

Rush Request:

72 Hour

Analyzed by:

see "By" below

SDG ID: GBF93052

P.O.#:

20110979AZE

**Laboratory Data** 

Phoenix ID: BF93057

Project ID:

DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID:

122713-KN-05 DUP

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/27/13	_1	E160.3
Extraction for PCB	Completed			12/28/13	TT	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.37	mg/kg	12/31/13	KCA	3540C/8082
PCB-1221	ND	0.37	mg/kg	12/31/13	KCA	3540C/8082
PCB-1232	ND	0.37	mg/kg	12/31/13	KCA	3540C/8082
PCB-1242	ND	0.37	mg/kg	12/31/13	KCA	3540C/8082
PCB-1248	ND	0.37	mg/kg	12/31/13	KCA	3540C/8082
PCB-1254	ND	0.37	mg/kg	12/31/13	KCA	3540C/8082
PCB-1260	ND	0.37	mg/kg	12/31/13	KCA	3540C/8082
PCB-1262	ND	0.37	mg/kg	12/31/13	KCA	3540C/8082
PCB-1268	ND	0.37	mg/kg	12/31/13	KCA	3540C/8082
QA/QC Surrogates						
% DCBP	111		%	12/31/13	KCA	30 - 150 %
% TCMX	107		%	12/31/13	KCA	30 - 150 %

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-05 DUP

Phoenix I.D.: BF93057

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

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Phyllis Shiller, Laboratory Director

January 03, 2014

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2014

FOR: Attn: Ms Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix: SOLID Collected by:

Collected by: Received by: <u>Date</u> 12/27/13 <u>Time</u> 0:00

Location Code:

F&O-PCB

sw

12/27/13

12:33

Rush Request:

72 Hour

Analyzed by:

see "By" below

P.O.#:

20110979AZE

Laboratory Data

SDG ID: GBF93052

Phoenix ID: BF93058

Project ID:

DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID:

122713-KN-06

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/27/13	L.	E160.3
Extraction for PCB	Completed			12/28/13	TT	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	12/31/13	KCA	3540C/8082
PCB-1221	ND	0.5	mg/kg	12/31/13	KCA	3540C/8082
PCB-1232	ND	0.5	mg/kg	12/31/13	KCA	3540C/8082
PCB-1242	ND	0.5	mg/kg	12/31/13	KCA	3540C/8082
PCB-1248	ND	0.5	mg/kg	12/31/13	KCA	3540C/8082
PCB-1254	ND	0.5	mg/kg	12/31/13	KCA	3540C/8082
PCB-1260	ND	0.5	mg/kg	12/31/13	KCA	3540C/8082
PCB-1262	ND	0.5	mg/kg	12/31/13	KCA	3540C/8082
PCB-1268	ND	0.5	mg/kg	12/31/13	KCA	3540C/8082
QA/QC Surrogates						
% DCBP	110		%	12/31/13	KCA	30 - 150 %
% TCMX	105		%	12/31/13	KCA	30 - 150 %

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-06

Phoenix I.D.: BF93058

RL

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

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Phyllis Shiller, Laboratory Director

January 03, 2014



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Analysis Report

January 03, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road

Manchester, CT 06040

Sample Information

SOLID

Collected by:

<u>Date</u> 12/27/13 <u>Time</u> 0:00

Location Code:

F&O-PCB

Received by:

Custody Information

SW 12/27/13

12:33

Rush Request:

72 Hour

Analyzed by:

see "By" below

SDG ID: GBF93052

P.O.#:

Matrix:

20110979AZE

Laboratory Data

Phoenix ID: BF93059

Project ID:

DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID:

122713-KN-07

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/27/13	- 1	E160.3
Extraction for PCB	Completed			12/28/13	TT	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.65	mg/kg	12/31/13	KCA	3540C/8082
PCB-1221	ND	0.65	mg/kg	12/31/13	KCA	3540C/8082
PCB-1232	ND	0.65	mg/kg	12/31/13	KCA	3540C/8082
PCB-1242	ND	0.65	mg/kg	12/31/13	KCA	3540C/8082
PCB-1248	ND	0.65	mg/kg	12/31/13	KCA	3540C/8082
PCB-1254	ND	0.65	mg/kg	12/31/13	KCA	3540C/8082
PCB-1260	ND	0.65	mg/kg	12/31/13	KCA	3540C/8082
PCB-1262	ND	0.65	mg/kg	12/31/13	KCA	3540C/8082
PCB-1268	ND	0.65	mg/kg	12/31/13	KCA	3540C/8082
QA/QC Surrogates						
% DCBP	110		%	12/31/13	KCA	30 - 150 %
% TCMX	108		%	12/31/13	KCA	30 - 150 %

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-07

Phoenix I.D.: BF93059

RL

Parameter Result PQL Units Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 03, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

January 03, 2014

FOR: At

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information

Matrix: SOLID Custody Information

Custody Information

Collected by:

Location Code: F&O-PCB Received by:

SW see "By" below

72 Hour Analyzed by: s

P.O.#: 20110979AZE

Rush Request:

Laboratory Data

SDG ID: GBF93052

Time

0:00

12:33

Phoenix ID: BF93060

Date

12/27/13

12/27/13

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-08

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/27/13		E160.3
Extraction for PCB	Completed			12/28/13	11	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	1	mg/kg	12/31/13	KCA	3540C/8082
PCB-1221	ND	à	mg/kg	12/31/13	KCA	3540C/8082
PCB-1232	ND	d	mg/kg	12/31/13	KCA	3540C/8082
PCB-1242	ND	1	mg/kg	12/31/13	KCA	3540C/8082
PCB-1248	ND	1	mg/kg	12/31/13	KCA	3540C/8082
PCB-1254	ND	1	mg/kg	12/31/13	KCA	3540C/8082
PCB-1260	ND	1	mg/kg	12/31/13	KCA	3540C/8082
PCB-1262	ND	1	mg/kg	12/31/13	KCA	3540C/8082
PCB-1268	ND	1	mg/kg	12/31/13	KCA	3540C/8082
QA/QC Surrogates			7. 5.45	14021013	2021	
% DCBP	106		%	12/31/13	KCA	30 - 150 %
% TCMX	103		%	12/31/13	KCA	30 - 150 %

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-08

Phoenix I.D.: BF93060

RL

Parameter

Result

PQL

Units

Date/Time

By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 03, 2014



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2014

FOR:

Attn: Ms Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information **Custody Information** Time Date Matrix: SOLID Collected by: 12/27/13 0:00 Location Code: F&O-PCB Received by: SW 12/27/13 12:33 see "By" below

Rush Request: 72 Hour Analyzed by:

P.O.#: 20110979AZE

aboratory Data SDG ID: GBF93052

Phoenix ID: BF93061

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-09

Result	RL/ PQL	Units	Date/Time	Ву	Reference
100		%	12/27/13	- 1	E160.3
Completed			12/28/13	TT	SW3540C
ND	0.98	mg/kg	12/31/13	KCA	3540C/8082
ND	0.98	mg/kg	12/31/13	KCA	3540C/8082
ND	0.98	mg/kg	12/31/13	KCA	3540C/8082
ND	0.98	mg/kg	12/31/13	KCA	3540C/8082
ND	0.98	mg/kg	12/31/13	KCA	3540C/8082
ND	0.98	mg/kg	12/31/13	KCA	3540C/8082
ND	0.98	mg/kg	12/31/13	KCA	3540C/8082
ND	0.98	mg/kg	12/31/13	KCA	3540C/8082
ND	0.98	mg/kg	12/31/13	KCA	3540C/8082
					PARTY REPORTED
102		%	12/31/13	KCA	30 - 150 %
98			12/31/13	KCA	30 - 150 %
	100 Completed  ND	ND 0.98	Result         PQL         Units           100         %           Completed         %           ND         0.98         mg/kg           ND         0.98         mg/kg	100 % 12/27/13 Completed 12/28/13  ND 0.98 mg/kg 12/31/13	Result         PQL         Units         Date/Time         By           100         %         12/27/13         I           Completed         12/28/13         TT           ND         0.98         mg/kg         12/31/13         KCA           ND         0.98         mg/kg         12/31/13         KCA

Project ID: DISCOVERY ACADEMY 176 CUMBERLAND AVE

Client ID: 122713-KN-09

Phoenix I.D.: BF93061

RL

Parameter Result PQL Units Date/Time By Reference

RUPQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2014

 So Reddeld Street, Suite 100, Boston, MA 02122
 Z75 Promenade Street, Suite 350, Providence, RI 02508
 So Washington Street, Suite 301, Poughkeepsie, NY 12601 93056 (days) 93057 93059 93060 93061 93053 93059 93058 Phoenix 93052 43054 Comments Other (da \*Surcharge Applies masor / Jose / Imose / LABORATORY Containers ENIH - 218014 days) 63 Days\* .AZE 20112979 O 1 Day\* 146 Hartford Road, Manchester, CT 06040

56 Quarry Road, Trumbull, CT 06611

1419 Richland Street, Columbia, SC 29201

78 Interstate Drive, West Springfield, MA 01089 PROJECT NUMBER FIRSCS ARGE REST whershield 1307 Analysis Request > Time AVC CHAIN-OF-CUSTODY RECORD Date: (2-27-13 PROJECT LOCATION 122713 176 Comberland Date Sampled FUSS & O'NEILL ENVIROSCIENCE, LLC KARTOR W=Waste A=Air Source 122713-KN-05Dupliate Proje/ Redfield 20109-A. AZE S=Soil B=Sediment 122713-14N-03 122713-KAL-09 122713-KN-05 122713-KN-02 122713-KN-0 122713-KM-04 122713-161-06 122713-KN-08 TO-144-517251 Sample Number PW=Potable Water
T=Treatment Facility Kndemy (860) 646-2469 • www.FandO.com Largon あがら Disciplines to Deliver PROJECT NAME NW=Monitoring Well SW=Surface Water B b X=Other -Siscovery Sampler's Signature: Transfer Check 10 INVOICE TO: 0 REPORT TO: Source Codes: P.O. No.: -Item No. 2 3 5 0 a フ 1

Reporting and Detection Limit Requirements:

Time

Date

Accepted By

Relinquished By

Transfer Number

6

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Sanato

123 3 Additional Comments:

12/27/13

of the 56 Quarry Road, Trambull, CT 06611
 1419 Richland Street, Columbia, SC 29201
 78 Interstate Drive, West Springfield, MA 01089 2 146 Hartford Road, Manchester, CT 06040 CHAIN-OF-CUSTODY RECORD FUSS & O'NEILL ENVIROSCIENCE, LLC (860) 646-2469 • www.FandO.com Disciplines to Deliver

D 50 Redfield Street, Suite 10b, Boston, MA 02122
D 275 Promenade Street, Suite 350, Providence, RI 02908
D 80 Washington Street, Suite 301, Poughkeepsie, NY 12601

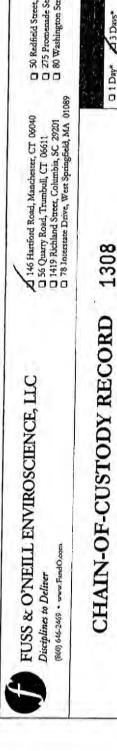
(days) Other (da \*Surcharge Applies madol / lass / mase / 1 LABORATORY Containers 74 OSE SONI - 21546 Phoenix Thu OSE | 1 SOSIA - 2000 de (days) 43 Days\* 20110979.AZE O 1 Day\* PROJECT NUMBER THRES ROOF SO 5 herstiel 1309 Analysis Request Time Date: 12-27-13 Redhid PROJECT LOCATION Ave Date Sampled Discovery Academy 176 Comberland W=Waste LACTON Source A=Air Redfield S=Soil B=Sediment 2011-0979.AZE Parac Sample Number PW=Potable Water T=Treatment Facility wthles Luredon PROJECT NAME Sampler's Signature: X=Other W.P( Transfer Check MW=Monitoring Well SW=Surface Water 3 INVOICE TO: REPORT TO: 0 Source Codes: P.O. No.:

No.

93066 93065 93062 93063 93064 92068 93060 93070 287 9306 Q 122713 × 122713-KN-016. 122713-KN-048 122713-14-013 72713-KM-017 P10-NN-517221 122713-KN -012 410-4X-51122 0101-N7-81122 22713-124-015 110-NY-811221 Relinquished By 3 2 0 B 5 7

Comments

Reporting and Detection Limit Requirements: 123 Additional Comments: Time 12/27/13 Date Accepted By Maradise Number Transfer 60 01 4



OWIC FIP

50 Redfield Street, Suite 10b, Boston, MA 02122

1275 Promemade Street, Suite 350, Providence, RI 02908

180 Washington Street, Suite 301, Poughkeepsic, NY 12601

(days)

Q Phoenix Other (day 9307 LABORATORY Containers SONIA - 30 SUS days) 20110979,A2E 0 1 Day\* 5 Days\* 0 2 Days\* 0 Standard ( PROJECT NUMBER 5 THROS/ 2808 RES Ave Wetherstield Request Analysis Date: [2-27-13 Time Comberlind PROJECT LOCATION Date Sampled 12713 W=Waste Souther A=Air Kurran 176 20 11 0979, AZI S=Soil B=Sedimenr 122713-KM-020 Knrron Red File Sample Number cucens PW=Potable Water T=Treatment Facility 1 three PROJECT NAME Discovery Sampler's Signature: X=Other Mip Transfer Check MW=Monitoring Well SW=Surface Water 113 REPORT TO: // INVOICE TO: 2 Source Codes: P.O. No.: No. 7

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Transfer Number	Relinquished By	Accepted By	Date	Trace Reporting and Detection Limit Requirements:	
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≼	1	22222	12/27/12	2212 122 Additional Comments:	
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122713-KN -027 122713-KN-028



146 Hartford Road, Manchester, CT 06040

56 Quarry Road, Trumbull, CT 06611

1419 Richland Street, Columbia, SC 29201

78 Interstate Drive, West Springfield, MA 01089

1310

CHAIN-OF-CUSTODY RECORD

50 Rodfield Street, Suite 100, Boston MA 02122
 275 Promenade Street, Suite 350, Providence, RI 02908
 80 Washington Street, Suite 301, Poughkeepsic, NY 12601

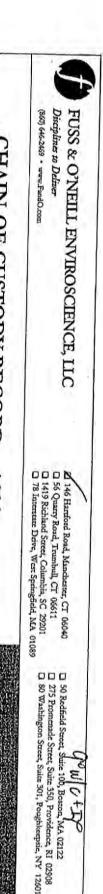
(days)

Phoenix 93083 h8086 93086 93088 93089 93090 43087 93082 58066 309 Other (day) 20110979, AZE P Containers 10 NH - 208 MH O 2058H - 3000H days) Standard ( O 1 Day\* Reporting and Detection Limit Requirements: PROJECT NUMBER Ave Wethersfield THINKS / TROOP HOLS 12 9413 12 3 4 Additional Comments Request Analysis Time Date Time Date: 12-27-13 Redtielo 176 Comberland PROJECT LOCATION (1771) Date Sampled W=Waste A=Air × Kyrron Accepted By Source Runds 22713-1CN-34 Dupliade A24 S=Soil B=Sediment Zed Fiel 122713-14M-39 122713-14-32 122715-14 - 30 22713-KN-36 PANE 122713-144=34 122713-KN -3 122713-KN-33 122713-141-37 965 Sample Number Academy **公司第3.44-3** PW=Potable Water T=Treatment Facility Lurron ithicen 102 Relinquished By PROJECT NAME Brick Discovery Sampler's Signature: Transfer Check MW=Monitoring Well SW=Surface Water m 7 REPORT TO: INVOICE TO: Source Codes: P.O. No.: X=Other Transfer Number 36 32 No. 35 38 3 3 3

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CHAIN-OF-CUSTODY RECORD	DY RECORD	1309	01Day* 43Days*	O Other(days)
PROJECT NAME PROJECT I	PROJECT LOCATION	PROJE	-	ם ן
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10: Kurson Redfiel		Request /	11/1/1/	111111
P.O.No.: 2011-0979. AZE		/	11/1/1///	/////
gnature:	Date 12-27-13	HE	111111111111111111111111111111111111111	1450 1000
Source Codes:  NW=-Monitoring Well PW=Pomble Water S=Saii	W=Waste	SON A	· A	
t=Learner Facility	Λ≂Air	POR X	a So	\$\partial \partial \part
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		may my	the property	With Chiana
		- Amarka	60 24 12 X	7

#### Bobbi - Phoenixlabs

From: Bobbi - Phoenixlabs [bobbi@phoenixlabs.com]

Sent: Monday, December 30, 2013 12:38 PM

To: 'Kathleen Pane'; 'Karron Redfield'; 'Bobbi - Phoenixlabs'

Subject: Discovery Academy Sample Lost during extraction

HI Kathleen and Karron

We accidently lost one of your samples during the extraction process. It is a wipe sample, your ID 122713-KN-014. We apologize for any inconvenience this may cause. It was sampled on 12/27/13

#### Bobbi

Bobbi Aloisa Vice President Director of Client Services Phoenix Environmental Laboratories 587 East Middle Turnpike Manchester, CT 06040 Ph: 860-645-8728





Friday, December 06, 2013

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

Sample ID#s: BF83327 - BF83360

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

**Laboratory Director** 

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #MA-CT-007 ME Lab Registration #CT-007 NH Lab Registration #213693-A.B

NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 VT Lab Registration #VT11301



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information

SOLID

Location Code:

Matrix:

P.O.#:

F&O-PCB

Rush Request:

72 Hour

20110979.A2E

**Custody Information** 

Received by:

Analyzed by:

Collected by:

SV

LB

12/03/13

Time 0:00

12/03/13

Date

15:14

see "By" below

aboratory Data SDG ID: GBF83327

Phoenix ID: BF83327

Project ID:

176 CUMBERLAND AVE., WETHERSFIELD

Client ID:

120313-SV-01

RI/

Parameter	Result	PQL	Units	Date/Time	Ву	Reference
Percent Solid	96	77.5	%	12/03/13	10.	E160.3
Extraction for PCB	Completed			12/03/13	BB/KV	V SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	106		%	12/04/13	AW	30 - 150 %
% TCMX	97		%	12/04/13	AW	30 - 150 %

Ver 1 Page 1 of 68

Client ID: 120313-SV-01

Phoenix I.D.: BF83327

RL/

Parameter Result PQL

Units

Date/Time

By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 06, 2013



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	<u>Date</u>	<u>Time</u>
Matrix:	SOLID	Collected by:	sv	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14
Rush Request:	72 Hour	Analyzed by:	see "By" helow		

**Laboratory Data** 

SDG ID: GBF83327

Phoenix ID: BF83328

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

20110979.A2E

Client ID: 120313-SV-02

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/03/13		E160.3
Extraction for PCB	Completed			12/03/13	BB/KV	V SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.71	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.71	mg/kg	12/04/13	AW	3540C/8082
PCB-1232	ND	0.71	mg/kg	12/04/13	AW	3540C/8082
PCB-1242	ND	0.71	mg/kg	12/04/13	AW	3540C/8082
PCB-1248	ND	0.71	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.71	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.71	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.71	mg/kg	12/04/13	AW	3540C/8082
PCB-1268	ND	0.71	mg/kg	12/04/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	112		%	12/04/13	AW	30 - 150 %
% TCMX	101		%	12/04/13	AW	30 - 150 %

Page 3 of 68

Client ID: 120313-SV-02

RL/ PQL

Units Date/Time By Reference

Phoenix I.D.: BF83328

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

Parameter

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.

Result

Phyllis Shiller, Laboratory Director

December 06, 2013

Reviewed and Released by: Ethan Lee, Project Manager

Page 4 of 68 Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

December 06, 2013

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information		<b>Custody Inform</b>	Custody Information		Time
Matrix:	SOLID	Collected by:	sv	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		

Rush Request:

P.O.#:

72 Hour

20110979.A2E

Laboratory Data

SDG ID: GBF83327

Phoenix ID: BF83329

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

120313-SV-03 Client ID:

RL/ Parameter Result PQL Units Date/Time Reference By % 12/03/13 E160.3 Percent Solid 100 Extraction for PCB Completed 12/03/13 BB/KW SW3540C PCB (Soxhlet) PCB-1016 0.49 ND mg/kg 12/04/13 AW 3540C/8082 ND PCB-1221 0.49 12/04/13 3540C/8082 mg/kg AW PCB-1232 ND 0.49 mg/kg 12/04/13 AW 3540C/8082 ND 0.49 3540C/8082 PCB-1242 mg/kg 12/04/13 AW PCB-1248 ND 0.49 12/04/13 3540C/8082 mg/kg AW PCB-1254 ND 0.49 12/04/13 AW 3540C/8082 mg/kg PCB-1260 ND 0.49 mg/kg 12/04/13 AW 3540C/8082 PCB-1262 ND 0.49 mg/kg 12/04/13 AW 3540C/8082 PCB-1268 ND 0.49 mg/kg 12/04/13 AW 3540C/8082 QA/QC Surrogates % DCBP 97 % 12/04/13 AW 30 - 150 % % TCMX 102 % 12/04/13 AW 30 - 150 %

> Page 5 of 68 Ver 1

Client ID: 120313-SV-03

RL/

Parameter Result PQL Units Date/Time By Reference

Phoenix I.D.: BF83329

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 06, 2013

Reviewed and Released by: Ethan Lee, Project Manager

Page 6 of 68 Ver 1



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	Custody Information		Time	
Matrix:	SOLID	Collected by:	sv	12/03/13	0:00	
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14	
Rush Request:	72 Hour	Analyzed by:	see "By" below			

# Laboratory Data

SDG ID: GBF83327

Phoenix ID: BF83330

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

20110979.A2E

120313-SV-04 Client ID:

P.O.#:

RL/ PQL Units Date/Time By Reference Parameter Result % E160.3 100 12/03/13 Percent Solid Extraction for PCB Completed 12/03/13 BB/KW SW3540C PCB (Soxhlet) 12/04/13 AW 3540C/8082 PCB-1016 ND 0.4 mg/kg 0.4 12/04/13 AW 3540C/8082 ND PCB-1221 mg/kg PCB-1232 ND 0.4 mg/kg 12/04/13 AW 3540C/8082 ND 0.4 12/04/13 AW 3540C/8082 PCB-1242 mg/kg 3540C/8082 ND 0.4 12/04/13 AW PCB-1248 mg/kg 3540C/8082 ND 0.4 mg/kg 12/04/13 AW PCB-1254 3540C/8082 ND 0.4 mg/kg 12/04/13 AW PCB-1260 ND 0.4 mg/kg 12/04/13 AW 3540C/8082 PCB-1262 12/04/13 AW 3540C/8082 PCB-1268 ND 0.4 mg/kg **QA/QC Surrogates** % DCBP 100 % 12/04/13 30 - 150 % 12/04/13 AW 30 - 150 % % TCMX 91 %

> Page 7 of 68 Ver 1

Client ID: 120313-SV-04

RL/

Parameter Result PQL Units Date/Time By Reference

Phoenix I.D.: BF83330

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 06, 2013

Reviewed and Released by: Ethan Lee, Project Manager

Page 8 of 68 Ver 1



Environmental Laboratories, Inc. 587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informati	ation	<u>Custody Information</u>		<u>Date</u>	Time
Matrix:	SOLID	Collected by:	sv	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14

see "By" below

72 Hour Rush Request:

Analyzed by:

SDG ID: GBF83327

aboratory Data

Phoenix ID: BF83331

Project ID:

P.O.#:

176 CUMBERLAND AVE., WETHERSFIELD

Client ID:

120313-SV-05

20110979.A2E

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/03/13	1.17	E160.3
Extraction for PCB	Completed			12/03/13	BB/KV	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.62	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.62	mg/kg	12/04/13	AW	3540C/8082
PCB-1232	ND	0.62	mg/kg	12/04/13	AW	3540C/8082
PCB-1242	ND	0.62	mg/kg	12/04/13	AW	3540C/8082
PCB-1248	ND	0.62	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.62	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.62	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.62	mg/kg	12/04/13	AW	3540C/8082
PCB-1268	ND	0.62	mg/kg	12/04/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	109		%	12/04/13	AW	30 - 150 %
% TCMX	100		%	12/04/13	AW	30 - 150 %

Client ID: 120313-SV-05

FIELD Phoenix I.D.; BF83331

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 06, 2013



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	<u>Date</u>	<u>Time</u>	
Matrix:	SOLID	Collected by:	sv	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		

Rush Request: 72 Hour 20110979.A2E

Laboratory Data

SDG ID: GBF83327

Phoenix ID: BF83332

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

120313-SV-06 Client ID:

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	97		%	12/03/13	- 1	E160.3
Extraction for PCB	Completed			12/03/13	BB/KW	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	93		%	12/04/13	AW	30 - 150 %
% TCMX	102		%	12/04/13	AW	30 - 150 %

Client ID: 120313-SV-06

RL/

Result PQL Units

Date/Time

By Reference

Phoenix I.D.: BF83332

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

### Comments:

Parameter

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 06, 2013

Reviewed and Released by: Ethan Lee, Project Manager

Page 12 of 68 Ver 1



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 06, 2013

Attn: Ms. Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Information		Custody Inform	Custody Information		Time	
Matrix:	SOLID	Collected by:	SV	12/03/13	0:00	
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14	
Rush Request:	72 Hour	Analyzed by:	see "By" below			

# Laboratory Data

SDG ID: GBF83327

Phoenix ID: BF83333

176 CUMBERLAND AVE., WETHERSFIELD Project ID:

20110979.A2E

120313-SV-07 Client ID:

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	95		%	12/03/13	1	E160.3
Extraction for PCB	Completed			12/03/13	BB/KV	V SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/04/13	AVV	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/04/13	AVV	3540C/8082
PCB-1248	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	91		%	12/04/13	AW	30 - 150 %
% TCMX	96		%	12/04/13	AW	30 - 150 %

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Client ID: 120313-SV-07

RL

Parameter Result PQL Units Date/Time By Reference

Phoenix I.D.: BF83333

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

December 06, 2013

Reviewed and Released by: Ethan Lee, Project Manager

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation .	Custody Inform	<u>nation</u>	Date	Time
Matrix:	SOLID	Collected by:	sv	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14
Rush Request:	72 Hour	Analyzed by:	see "Ry" below		

P.O.#: 20110979,A2E Laboratory Data

Phoenix ID: BF83334

SDG ID: GBF83327

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

Client ID: 120313-SV-08

Result	RL/ PQL	Units	Date/Time	Ву	Reference
98		%	12/03/13	. 1.	E160.3
Completed			12/03/13	BB/KV	SW3540C
ND	0.34	mg/kg	12/04/13	AW	3540C/8082
ND	0,34	mg/kg	12/04/13	AW	3540C/8082
ND	0.34	mg/kg	12/04/13	AW	3540C/8082
ND	0.34	mg/kg	12/04/13	AW	3540C/8082
ND	0.34	mg/kg	12/04/13	AW	3540C/8082
ND	0.34	mg/kg	12/04/13	AW	3540C/8082
ND	0,34	mg/kg	12/04/13	AW	3540C/8082
ND	0.34	mg/kg	12/04/13	AW	3540C/8082
ND	0.34	mg/kg	12/04/13	AW	3540C/8082
90		%	12/04/13	AW	30 - 150 %
93		%	12/04/13	AW	30 - 150 %
	98 Completed ND	Result PQL  98 Completed  ND 0.34	REJ/ Result PQL Units  98 %  Completed  ND 0.34 mg/kg	Result         PQL         Units         Date/Time           98         %         12/03/13           Completed         12/03/13           ND         0.34         mg/kg         12/04/13           ND         0.34         mg/kg         12/04/13	REVIT         PQL         Units         Date/Time         By           98         %         12/03/13         I           Completed         12/03/13         BB/KW           ND         0.34         mg/kg         12/04/13         AW           ND

Client ID: 120313-SV-08

Phoenix I.D.: BF83334

RL/

Parameter Result PQL Units Date/Time By Reference

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

December 06, 2013



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 06, 2013

Attn: Ms. Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	Date	Time
Matrix:	SOLID	Collected by:	sv	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		

**Laboratory Data** 

SDG ID: GBF83327

Phoenix ID: BF83335

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

20110979.A2E

120313-SV-09 Client ID:

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	99		%	12/03/13		E160.3
Extraction for PCB	Completed			12/03/13	BB/KV	V SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	91		%	12/04/13	AW	30 - 150 %
% TCMX	65		%	12/04/13	AW	30 - 150 %

Client ID: 120313-SV-09

Phoenix I.D.: BF83335

RL/

Parameter Result PQL Units Date/Time By Reference

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

December 06, 2013



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# **Analysis Report**

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	mation	Date	Time
Matrix:	SOLID	Collected by:	sv	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		

Laboratory Data

SDG ID: GBF83327

Phoenix ID: BF83336

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

20110979.A2E

120313-SV-10 Client ID:

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	96		%	12/03/13		E160.3
Extraction for PCB	Completed			12/03/13	BB/KW	SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/04/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	104		%	12/04/13	AW	30 - 150 %
% TCMX	94		%	12/04/13	AW	30 - 150 %

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Client ID: 120313-SV-10

Phoenix I.D.: BF83336

RL/

Parameter Result PQL Units Date/Time By Reference

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

December 06, 2013

Reviewed and Released by: Ethan Lee, Project Manager

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

see "By" below

Sample Informa	ation .	Custody Information Collected by: SV Received by: LB	<u>Date</u>	Time	
Matrix:	SOLID	Collected by:	sv	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14

Analyzed by:

Rush Request: 72 Hour

P.O.#: 20110979.A2E

Laboratory Data

SDG ID: GBF83327

Phoenix ID: BF83337

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

Client ID: 120313-SV-11

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/03/13	1.191	E160.3
Extraction for PCB	Completed			12/03/13	BB/KV	/ SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.59	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.59	mg/kg	12/04/13	AW	3540C/8082
PCB-1232	ND	0.59	mg/kg	12/04/13	AVV	3540C/8082
PCB-1242	ND	0.59	mg/kg	12/04/13	AW	3540C/8082
PCB-1248	ND	0.59	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.59	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.59	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.59	mg/kg	12/04/13	AVV	3540C/8082
PCB-1268	ND	0.59	mg/kg	12/04/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	108		%	12/04/13	AW	30 - 150 %
% TCMX	84		%	12/04/13	AW	30 - 150 %

Client ID: 120313-SV-11

Phoenix I.D.; BF83337

RL/

Parameter Result PQL Units Date/Time By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

if there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 06, 2013



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# Analysis Report

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	<u>Date</u>	Time
Matrix:	SOLID	Collected by:	sv	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		

Laboratory Data

SDG ID: GBF83327

Phoenix ID: BF83338

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

20110979.A2E

120313-SV-12 Client ID:

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/03/13	1	E160.3
Extraction for PCB	Completed			12/03/13	BB/KV	/ SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.5	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	12/04/13	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	12/04/13	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	12/04/13	AW	3540C/8082
PCB-1248	ND	0.5	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.5	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	12/04/13	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	12/04/13	AVV	3540C/8082
QA/QC Surrogates						
% DCBP	98		%	12/04/13	AW	30 - 150 %
% TCMX	86		%	12/04/13	AW	30 - 150 %

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Client ID: 120313-SV-12

RL/

Parameter Result PQL Units Date/Time By Reference

Phoenix I.D.: BF83338

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

December 06, 2013

Reviewed and Released by: Ethan Lee, Project Manager

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	<b>Custody Inform</b>	nation	Date	<u>Time</u>
Matrix:	SOLID	Collected by:	SV	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14

Rush Request: 72 Hour Analyzed by: see "By" below

Laboratory Data

SDG ID: GBF83327

Phoenix ID: BF83339

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

20110979.A2E

Client ID: 120313-SV-13

P.O.#;

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/03/13	- 1	E160.3
Extraction for PCB	Completed			12/03/13	BB/KV	V SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	111		%	12/04/13	AW	30 - 150 %
% TCMX	92		%	12/04/13	AW	30 - 150 %

Client ID: 120313-SV-13

RL/

Units

Date/Time

By Reference

Phoenix I.D.: BF83339

PQL Result

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

Parameter

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

December 06, 2013

Reviewed and Released by: Ethan Lee, Project Manager

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Ver 1



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

### **Analysis Report**

December 06, 2013

FOR: At

Attn: Ms. Kathleen Pane Fuss & O'Neill, Inc.

146 Hartford Road Manchester, CT 06040

Sample Information **Custody Information** Date Time 0:00 Matrix: SOLID Collected by: SV 12/03/13 Received by: Location Code: F&O-PCB LB 12/03/13 15:14

Rush Request: 72 Hour Analyzed by: see "By" below

P.O.#: 20110979.A2E Laboratory Data

SDG ID: GBF83327

Phoenix ID: BF83340
Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

Client ID: 120313-SV-14

RL/ PQL Parameter Units Date/Time Result By Reference % Percent Solid 100 12/03/13 E160.3 Extraction for PCB Completed 12/03/13 BB/KW SW3540C PCB (Soxhlet) mg/kg PCB-1016 ND 0.33 12/04/13 AW 3540C/8082 PCB-1221 ND 0.33 mg/kg 12/04/13 AW 3540C/8082 PCB-1232 ND 0.33 mg/kg 12/04/13 AW 3540C/8082 PCB-1242 ND 0.33 mg/kg 12/04/13 AW 3540C/8082 ND 0.33 12/04/13 3540C/8082 PCB-1248 AW mg/kg 0.33 12/04/13 3540C/8082 PCB-1254 ND mg/kg AW 12/04/13 3540C/8082 PCB-1260 ND 0.33 mg/kg AW ND 0.33 12/04/13 3540C/8082 PCB-1262 mg/kg AW PCB-1268 ND 0.33 12/04/13 AW 3540C/8082 mg/kg QA/QC Surrogates % DCBP 109 % 12/04/13 AW 30 - 150 % % TCMX 99 % 12/04/13 AW 30 - 150 %

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Client ID: 120313-SV-14

Phoenix I.D.: BF83340

RL/

Parameter Result PQL Units Date/Time By Reference

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 06, 2013

Reviewed and Released by: Ethan Lee, Project Manager

Page 28 of 68 Ver 1



587 East Middle Tumpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	<u>Date</u>	Time
Matrix:	SOLID	Collected by:	sv	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14
Rush Request	72 Hour	Analyzed by:	see "By" helow		

Analyzed by See By Delot

### Laboratory Data

SDG ID: GBF83327

Phoenix ID: BF83341

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

20110979.A2E

Client ID: 120313-SV-15

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/03/13	1.	E160.3
Extraction for PCB	Completed			12/03/13	BB/KV	V SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/04/13	AVV	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/04/13	AW	3540C/8082
QA/QC Surrogates		120				
% DCBP	104		%	12/04/13	AW	30 - 150 %
% TCMX	100		%	12/04/13	AW	30 - 150 %

Client ID: 120313-SV-15

Phoenix I.D.: BF83341

RL/

Parameter Result PQL

Units

Date/Time

By Reference

#### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

December 06, 2013



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	<u>Date</u>	Time
Matrix:	SOLID	Collected by:	SV	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14
	223440000		Printed Colors (Colors of the Colors of the		

Rush Request: 72 Hour Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GBF83327

Phoenix ID: BF83342

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

20110979.A2E

Client ID: 120313-SV-16

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/03/13		E160.3
Extraction for PCB	Completed			12/03/13	BB/KV	V SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.74	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.74	mg/kg	12/04/13	AVV	3540C/8082
PCB-1232	ND	0.74	mg/kg	12/04/13	AW	3540C/8082
PCB-1242	ND	0.74	mg/kg	12/04/13	AW	3540C/8082
PCB-1248	ND	0.74	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.74	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.74	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.74	mg/kg	12/04/13	AW	3540C/8082
PCB-1268	ND	0.74	mg/kg	12/04/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	81		%	12/04/13	AW	30 - 150 %
% TCMX	72		%	12/04/13	AW	30 - 150 %

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Client ID: 120313-SV-16

RL/ PQL

Units Da

Date/Time

By Reference

Phoenix I.D.: BF83342

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Parameter

100% Solid Assumed

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Result

Phyllis Shiller, Laboratory Director

December 06, 2013

Reviewed and Released by: Ethan Lee, Project Manager

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	<u>Date</u>	Time
Matrix:	SOLID	Collected by:	sv	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14
Duck Deminst	70 Hours	Analyzed by	and UD III balance		

Rush Request: 72 Hour Analyzed by: see "By" below

Laboratory Data

SDG ID: GBF83327

Phoenix ID: BF83343

Project ID: 176 CUMBERLAND AVE., WETHERSFIELD

20110979.A2E

Client ID: 120313-SV-17

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/03/13		E160.3
Extraction for PCB	Completed			12/03/13	BB/KV	V SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.44	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.44	mg/kg	12/04/13	AW	3540C/8082
PCB-1232	ND	0.44	mg/kg	12/04/13	AW	3540C/8082
PCB-1242	ND	0.44	mg/kg	12/04/13	AW	3540C/8082
PCB-1248	ND	0.44	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.44	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.44	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.44	mg/kg	12/04/13	AW	3540C/8082
PCB-1268	ND	0.44	mg/kg	12/04/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	91		%	12/04/13	AW	30 - 150 %
% TCMX	88		%	12/04/13	AW	30 - 150 %

Client ID: 120313-SV-17

Phoenix I.D.: BF83343

RL/

Parameter Result PQL Units Date/Time By Reference

### RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

#### Comments:

100% Solid Assumed

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Phyllis Shiller, Laboratory Director

December 06, 2013

Reviewed and Released by: Ethan Lee, Project Manager

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 06, 2013

FOR:

Attn: Ms. Kathleen Pane

Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040

Sample Informa	ation	Custody Inform	nation	<u>Date</u>	<u>Time</u>
Matrix:	SOLID	Collected by:	sv	12/03/13	0:00
Location Code:	F&O-PCB	Received by:	LB	12/03/13	15:14
Rush Request:	72 Hour	Analyzed by:	see "By" below		

Laboratory Data

SDG ID: GBF83327

Phoenix ID: BF83344

176 CUMBERLAND AVE., WETHERSFIELD Project ID:

20110979.A2E

120313-SV-18 Client ID:

P.O.#:

Parameter	Result	RL/ PQL	Units	Date/Time	Ву	Reference
Percent Solid	100		%	12/03/13	- (	E160.3
Extraction for PCB	Completed			12/03/13	BB/KV	V SW3540C
PCB (Soxhlet)						
PCB-1016	ND	0.48	mg/kg	12/04/13	AW	3540C/8082
PCB-1221	ND	0.48	mg/kg	12/04/13	AW	3540C/8082
PCB-1232	ND	0.48	mg/kg	12/04/13	AW	3540C/8082
PCB-1242	ND	0.48	mg/kg	12/04/13	AW	3540C/8082
PCB-1248	ND	0.48	mg/kg	12/04/13	AW	3540C/8082
PCB-1254	ND	0.48	mg/kg	12/04/13	AW	3540C/8082
PCB-1260	ND	0.48	mg/kg	12/04/13	AW	3540C/8082
PCB-1262	ND	0.48	mg/kg	12/04/13	AW	3540C/8082
PCB-1268	ND	0.48	mg/kg	12/04/13	AW	3540C/8082
QA/QC Surrogates						
% DCBP	120		%	12/04/13	AW	30 - 150 %
% TCMX	98		%	12/04/13	AW	30 - 150 %

Client ID: 120313-SV-18

Phoenix I.D.: BF83344

RL/

Parameter Result PQL Units Date/Time By Reference

# RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level Comments:

100% Solid Assumed

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Phyllis Shiller, Laboratory Director

December 06, 2013